



## Memorandum

To: *Stephanie Vaughn (USEPA)*  
*Elizabeth Buckrucker (USACE)*

From: *Sharon Budney (CDM)*  
*George Molnar (CDM)*

Date: *November 16, 2011*

Re: *Status Report (August 24 to November 3, 2011)*  
*CPG Oversight of the RM 10.9 Sediment Characterization*  
*Lower Passaic River Restoration Project*

On behalf of the United States Environmental Protection Agency (EPA) and the United States Army Corps of Engineers (USACE), Kansas City District, CDM Federal Programs Corporation (CDM) provided oversight of the Cooperating Parties Group (CPG) remedial investigation/feasibility study (RI/FS) field activities associated with the River Mile (RM) 10.9 Sediment Characterization investigation in the Lower Passaic River (LPR).

CDM oversight activities were conducted August 24 through November 3, 2011. Due to flooding caused by Hurricane Irene and Tropical Storm Lee, field activities were delayed and no work on the river was completed between August 26 and September 8, 2011; work commenced on September 14, 2011. Oversight included the observation of sediment core and grab sample collection and processing. All activities were conducted in accordance with the *Lower Passaic River Study Area, River Mile 10.9 Characterization Quality Assurance Project Plan (QAPP), Revision 2, dated August 2011 and Revision 3, dated September 2011.*

Photographs of field activities are located in Attachment 1. A summary of sediment split samples can be found in Attachment 2. Copies of sediment split sample Chains-of-Custody (COCs) can be found in Attachment 3. Copies of logbook notes are located in Attachment 4.

### **General Summary**

Oversight consisted of observations of on-river and off-river sample collection and processing activities conducted by CPG subcontractors, AECOM, Gravity Environmental, L.L.C (Gravity), and Ocean Surveys, Inc. (OSI).

CPG field crews navigated to each location using a mast-mounted global positioning system (GPS) unit programmed with the correct coordinates. Each day's locations along with the vessel location were indicated on OSI's navigation software. The vessel was navigated to and anchored over each location using this software. Locations were verified by oversight staff using the map provided in the CPG's QAPP.

Three different types of cores were collected at the site: low resolution cores (LRC), high resolution cores (HRC), and sedimentology cores. Low resolution cores were collected at each

location and samples were collected according to a scheme that divided each core into segments ranging from 0.5 foot to 2 feet long. Samples from LRCs were analyzed for a list of analytes including but not limited to polycyclic aromatic hydrocarbons (PAHs), metals, cyanide, semi-volatile organic compounds (SVOCs), total petroleum hydrocarbon extractables (TPH), total organic carbon (TOC), volatile organic compounds (VOCs) and grain size. High resolution cores were collected from 6 locations where each core was divided into 0.25 foot segments. Each segment was analyzed for Cesium-137 and Lead-210. Sedimentology cores were collected from 11 locations for lithologic examination performed by Deltares. This activity is not detailed in CPGs QAPP. It was later understood that CPG contractor de maximis discussed the lithologic examination with EPA.

All sediment cores were collected using a pneumatic vibratory corer equipped with a 5, 15, or 20-foot core barrel depending on desired core length needed. At each core location water depth was recorded, the core barrel was fitted with a decontaminated 4-inch diameter polybuterate core liner, and the corer was advanced to the desired depth. Following advancement of the core barrel, 10 minutes were allowed to pass before pulling the core barrel out of the borehole in order to allow the sediment in the core barrel to settle. The core liner was then removed from the core barrel and cut into 4-foot sections per the QAPP and Standard Operating Procedures (SOPs) found in Appendix B of the QAPP. Measurements were made of the core sections in order to determine total recovery. If recovery was satisfactory (greater than 80 percent), the core sections were labeled and transported via jon boat to the CPG facility dock where they were then transported by truck to the CPG facility. During transport to the CPG facility, the cores were kept upright and stored in specially built coolers with ice. A detailed COC form was used to track each core as it was transported to the facility.

In addition to sediment cores, grab samples were also collected at each location using a pneumatic Powergrab sampler. Prior to the collection of each grab sample, the Powergrab sampler was decontaminated according to Level III decon procedures outlined in field SOP LPR-G-03 for Equipment Decontamination. At each location, water depth was measured and the Powergrab sampler was lowered to the river bottom and the pneumatic buckets were closed. The sampler was brought to the surface, excess water was siphoned from the bucket, and sediment depth was measured to ensure that at least 6 inches of material was recovered. For each successful grab sample collected, a detailed description of the material was recorded, the sample was screened for VOCs using a photoionization detector (PID), and aliquots were removed for the appropriate analyses. All samples were stored in a cooler with ice and transported back to the CPG facility along with the sediment cores.

At the CPG facility, sediment cores were stored upright in a walk-in refrigerator kept at 0 - 6° Celsius until ready for processing. Each 4-foot core section was processed individually in a ventilated tent. Individual core sections were weighed, and drained of excess water followed by the removal of the top 0 - 0.5 foot section of material which was identified as Interval "A". The core was then cut open, photographed, and lithologically logged. Sediment from each interval below interval A was then carefully removed into decontaminated stainless-steel bowls, screening for VOCs and mercury, photographed, and homogenized using stainless-steel spoons. The composite sediment mixture from each interval was then placed into the appropriate sample jars which were labeled, entered into AECOM's sample tracking system, and placed back into the walk-in refrigerator until ready for shipment.

### **Summary of Weekly Activities**

The following is a summary of weekly activities observed during the course of the RM 10.9 field effort:

**Week 1 (August 24 and August 25).** CDM oversight staff observed the collection and processing of LRC location 11B-0341, and LRC and grab sample at location 11B-0353.

No split samples were collected this week.

Minor issues noted:

- Attempts to collect cores at 11B-0301 and 11B-0339 were unsuccessful because neither refusal nor native material was encountered. OSI decided to bring a longer core barrel to the site the following week in order to collect these samples. Grab sampling was postponed at these locations until the cores were successfully collected.
- Attempts to collect a grab sample using a Van Veen sampler at 11B-0341 were unsuccessful. A field modification was submitted to EPA requesting approval to use a pneumatic Powergrab sampler. Subsequently, EPA approved of this request.

**Week 2 (September 14 and September 15).** CDM oversight staff observed the collection and processing of LRCs and grab samples from locations 11B-0325, 11B-0314, 11B-0318, and 11B-0313.

No split samples were collected this week.

**Week 3 (September 19 – September 22).** CDM oversight staff observed the collection and processing of LRCs and grab samples from locations 11B-0320, 11B-0321, 11B-0324, 11B-0350, 11B-0326, 11B-0327, 11B-0328, and 11B-0307.

Split samples were collected at locations 11B-0320, 11B-0321, and 11B-0324; however, split samples collected from 11B-0320 were discarded because the refrigerator they were stored in malfunctioned overnight which resulted in the samples raising to a temperature of 6° Celsius.

Minor issue noted:

- The refrigerator which contained split samples from 11B-0320 also contained some of AECOM's samples from location 11B-0327. AECOM retained the samples for analysis. None of the samples were for VOC analysis, AECOM issued a non-conformance report and notified the lab of the temperature exceedance.

**Week 4 (September 26 – September 29).** CDM oversight staff observed the collection and processing of LRCs and grab samples from locations 11B-0319, 11B-0335, 11B-0311, 11B-0339, 11B-0305, 11B-0337, 11B-0317, and 11B-0340. A grab sample that was previously unable to be collected at location 11B-0341 on August 24 was also collected.

Split samples were collected at locations 11B-0319, 11B-0335, and 11B-0311.

**Week 5 (October 3 – October 6).** CDM oversight staff observed the collection and processing of LRCs and grab samples from locations 11B-0347, 11B-0318, 11B-0322, 11B-0344, 11B-0318,

and 11B-0345. In addition, oversight staff observed the collection of HRCs from locations 11B-0310, 11B-0346, 11B-0322, 11B-0342, 11B-0331, and 11B-0349.

Split samples were collected at locations 11B-0347.

Minor issue noted:

- While transferring samples from the jon boat to the truck for transport to the CPG facility, one of the samples (11B-0345-G1) was inadvertently left in the cooler on the jon boat. The sample was left unattended for approximately 10 minutes. De maximus personnel were in proximity to the boat during this time and, upon noticing the cooler, informed AECOM personnel who immediately came and secured the sample. A non-conformance report was filed.

**Week 6 (October 10 – October 13).** CDM oversight staff observed the collection and processing of LRCs and grab samples from locations 11B-0304, 11B-0308, 11B-0331, 11B-0330, 11B-0343, 11B-0332, and 11B-0315. Only one LRC from location 11B-0351 was collected; no grab sample was collected due to the rocky nature of the substrate.

Split samples were collected at locations 11B-0304, 11B-0308, and 11B-0331.

Minor issue noted:

- A grab sample was unable to be collected at location 11B-0351. Crews made several attempts on two different days but, due to a rocky substrate, the grab sample could not be collected. A non-conformance report was filed.

**Week 7 (October 17 – October 20).** CDM oversight staff observed the collection and processing of LRCs and/or grab samples (see minor issues below) from locations 11B-0342, 11B-0306, 11B-0336, 11B-0303, 11B-0316, 11B-0334, and 11B-0352.

Split samples were collected at locations 11B-0342, 11B-0306, and 11B-0336.

Sedimentology cores were collected at 11B-0342, 11B-0346, and 11B-0303.

Minor issues noted:

- Grab samples were unable to be collected at locations 11B-0342 and 11B-0316. At both of these locations, extra time spent attempting to collect the sediment cores combined with falling tides prevented crews from obtaining successful grab samples.
- Early in the week, LRCs were attempted at 11B-0352 but after 5 attempts with insufficient recovery, the crew decided to move on to another location. The crew revisited this location later in the week and successfully collected the cores and grab sample.

**Week 8 (October 24 – October 27).** CDM oversight staff observed the collection and processing of LRCs and grab samples from locations 11B-0338, 11B-0310, 11B-0302, 11B-0323, 11B-0301, 11B-0348, and 11B-0333.

Sedimentology cores were collected at 11B-0338, 11B-0315, 11B-0310, and 11B-0322.



Split samples were collected at locations 11B-0338, 11B-0310, and 11B-0303.

Minor issues noted:

- The top 1-foot of the initial core collected at 11B-0301 would not settle satisfactorily for the processing crew to separate and homogenize the sediment into intervals for analysis. The sediment remained mostly suspended in liquid, even when left to sit and settle out overnight. A replacement core was collected the following day and successfully processed.
- On October 26, a radiator on the vibracore vessel broke. The fluids were quickly contained on the boat deck using a spill kit and the quantity of radiator fluid released to the river was estimated to be about 250 milliliters. Only one location was able to be completed that day. OSI was able to repair the radiator in time to continue sampling activities the following day.

**Week 9 (October 31 – November 3).** CDM oversight staff observed the collection and processing of LRCs and grab samples from locations 11B-0309, 11B-0349, 11B-0354, 11B-0346, and 11B-0312. In addition, a grab sample was collected from location 11B-0316, where a previous attempt to collect a sample during the week of October 16 was unsuccessful. All sampling in support of the RM 10.9 Characterization was completed.

Sedimentology cores were collected at locations 11B-0349, 11B-0331 and 11B-0316.

Split samples were collected at locations 11B-0349, 11B-0346, and 11B-0312.

Minor issues noted:

- On the morning of October 31, shortly after OSI started the motor that powered boat hydraulics, CDM oversight staff observed an oily sheen on the river originating from the rear of the boat. OSI personnel shut off the motor which was leaking hydraulic fluid. OSI immediately placed sorbent pads around the motor to contain the fluid. OSI fixed the motor and was able to collect a core early that afternoon. While attempting to collect a second core, the motor that powers the vibracore failed to start. No further cores were able to be collected. Due to insufficient core volume, CDM was unable to collect any split samples at this location. OSI personnel worked on repairing the vibracore motor in the afternoon. A health and safety incident occurred when the motor backfired and the muffler cracked with an OSI employee in close proximity. The noise damaged the OSI employee's eardrum and required medical attention. AECOM filed a health and safety incident report. No samples were able to be collected the following day, November 1, while AECOM and OSI assessed the boat and performed the necessary maintenance to ensure that the vessel and its components were in proper and safe working order.
- Two of the four VOA vials collected from the split sample at 11B-0312 (interval A) were accidentally dropped and broken at the CPG facility. The broken vials were cleaned up and disposed of as IDW. The sample was re-collected from interval A of the 11B-0312 sediment core.

**Attachment 1**  
**Photographs**

## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Sample processing tent inside CPG facility



Decontamination area inside CPG facility



## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

IDW storage area inside CPG facility



Pulling up first core at 11B-0321





# Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Advancing vibracore for 2<sup>nd</sup> core at 11B-0321



A 4-foot core segment from 4<sup>th</sup> core at 11B-0321



## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Cutting the 4<sup>th</sup> core at 11B-0321 into 4-foot segments. Note the transition into red native material.



Decoring the vibracore cutting head on the boat





## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Setting up the Powergrab pneumatic grab sampler



Collecting VOC samples from the Powergrab on the boat





## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Collecting VOC samples from the Powergrab on the boat



Removing soil from a core section inside the processing tent at CPG facility





## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

IDW drums inside the processing tent



Core settling/dewatering station inside the processing tent



## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Placing homogenized sediment into sampling jars inside the processing jars



Transporting cores from the jon boat to the truck to be transported to the CPG facility





## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Transporting samples from the jon boat to the truck to be taken to the CPG facility



Placing sediment from high resolution cores into steel bowl to be homogenized



## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Core processing station inside tent at CPG facility during high resolution core sampling



Core photographing station inside processing tent





## Lower Passaic River Restoration Project – River Mile 10.9 Characterization

Homogenizing sediment in steel bowl prior to placing into sample jars



Core logging and PID/mercury vapor testing station inside core processing tent



**Attachment 2**  
**Split Sampling Sample Summary Table**

**CDM Split Sample Identification Table**  
**RM 10.9 Sediment Sampling Oversight**  
**Lower Passaic River Restoration Project**  
**Lower Passaic River, New Jersey**

Sample ID <sup>1</sup>	Location	Core No. /Interval	Depth (ft)	QC Sample <sup>2</sup>	Date Collected	Time Collected	PAHs	Pest	PCB Cong.	PCDD/ PCDF	SVOCs	Herb	VOCs	TPH	Met + Ti	Hg	TOC
11B-0321-C4BS-C	11B-0321	C4BS	0.5 - 1.5		9/20/2011	9:22	X	X	X	X	X	X				X	
11B-0321-C4CS-C	11B-0321	C4CS	1.5 - 2.5		9/20/2011	9:22	X	X	X	X	X	X				X	
11B-0321-C5BS-C	11B-0321	C5BS	0.5 - 1.5		9/20/2011	10:04								X	X		X
11B-0321-C5CS-C	11B-0321	C5CS	1.5 - 2.5		9/20/2011	10:04								X	X		X
11B-0324-C1AS-C	11B-0324	C1AS	0 - 0.5		9/21/2011	7:47	X	X	X	X	X	X				X	
11B-0324-C1DS-C	11B-0324	C1DS	2.5 - 3.5		9/21/2011	7:47	X	X	X	X			X			X	
11B-0324-C2AS-C	11B-0324	C2AS	0 - 0.5		9/21/2011	8:33								X	X		X
11B-0324-C2DS-C	11B-0324	C2DS	2.5 - 3.5		9/21/2011	8:33					X	X			X		X
11B-0324-C3DS-C	11B-0324	C3DS	2.5 - 3.5		9/21/2011	9:13								X			
11B-0324-G1AS-C	11B-0324	G1AS	grab		9/21/2011	9:44							X				
11B-0319-C1BS-C	11B-0319	C1BS	0.5 - 1.5		9/26/2011	7:51								X	X		X
11B-0319-C1CS-C	11B-0319	C1CS	1.5 - 2.5		9/26/2011	7:51								X	X		X
11B-0319-C2BS-C	11B-0319	C2BS	0.5 - 1.5		9/26/2011	8:39	X	X	X	X	X	X				X	
11B-0319-C2CS-C	11B-0319	C2CS	1.5 - 2.5		9/26/2011	8:39	X	X	X	X	X	X				X	
11B-0335-C2ES-C	11B-0335	C2ES	3.5 - 5.5		9/27/2011	8:14	X	X	X	X	X	X		X	X	X	X
11B-0335-C2CS-C	11B-0335	C2CS	1.5 - 2.5		9/27/2011	8:14	X	X	X	X						X	
11B-0335-C3CS-C	11B-0335	C3CS	1.5 - 2.5		9/27/2011	9:03					X	X		X	X		X
11B-0311-C1DS-C	11B-0311	C1DS	2.5 - 3.5		9/28/2011	8:16	X	X	X	X			X				
11B-0311-C1DS-CX	11B-0311	C1DS	2.5 - 3.5	Dup	9/28/2011	8:16	X	X	X	X			X				
11B-0311-C2DS-C	11B-0311	C2DS	2.5 - 3.5		9/28/2011	9:04					X	X				X	
11B-0311-C2DS-CX	11B-0311	C2DS	2.5 - 3.5	Dup	9/28/2011	9:04					X	X				X	
11B-0311-C4DS-C	11B-0311	C4DS	2.5 - 3.5		9/28/2011	10:09								X	X		X
11B-0311-C4DS-CX	11B-0311	CADS	2.5 - 3.5	Dup	9/28/2011	10:09								X	X		X
11B-0311-C1AS-C	11B-0311	C1AS	0.0 - 0.5	MS/MSD	9/28/2011	8:16	X	X	X	X	X	X					
11B-0311-C4AS-C	11B-0311	C4AS	0.0 - 0.5	MS/MSD	9/28/2011	10:09									X		X
11B-0311-C2AS-C	11B-0311	C2AS	0.0 - 0.5	MS/MSD	9/28/2011	9:04								X		X	
11B-0311-G2AS-C	11B-0311	G2AS	grab	MS/MSD	9/28/2011	11:36							X				
11B-0347-C3DS-C	11B-0347	C3DS	2.5 - 3.5		10/3/2011	8:27								X	X	X	X

**CDM Split Sample Identification Table**  
**RM 10.9 Sediment Sampling Oversight**  
**Lower Passaic River Restoration Project**  
**Lower Passaic River, New Jersey**

Sample ID <sup>1</sup>	Location	Core No. /Interval	Depth (ft)	QC Sample <sup>2</sup>	Date Collected	Time Collected	PAHs	Pest	PCB Cong.	PCDD/ PCDF	SVOCs	Herb	VOCs	TPH	Met + Ti	Hg	TOC
11B-0347-C2DS-C	11B-0347	C2DS	2.5 - 3.5		10/3/2011	7:45	X	X	X	X	X	X	X				
11B-0347-C2AS-C	11B-0347	C2AS	0 - 0.5		10/3/2011	7:45	X	X	X	X	X	X					
11B-0347-C3AS-C	11B-0347	C3AS	0 - 0.5		10/3/2011	8:27								X	X	X	X
11B-0347-G1AS-C	11B-0347	G1AS	grab		10/3/2011	9:39							X				
11B-0304-C1BS-C	11B-0304	C1BS	0.5 - 1.5		10/10/2011	7:44	X	X	X	X	X	X				X	
11B-0304-C2BS-C	11B-0304	C2BS	0.5 - 1.5		10/10/2011	8:26								X	X		X
11B-0304-C1CS-C	11B-0304	C1CS	1.5 - 2.5		10/10/2011	7:44	X	X	X	X	X	X				X	
11B-0304-C2CS-C	11B-0304	C2CS	1.5 - 2.5		10/10/2011	8:26								X	X		X
11B-0308-C2CS-C	11B-0308	C2CS	1.5 - 2.5		10/11/2011	8:29	X	X	X	X	X	X				X	
11B-0308-C3CS-C	11B-0308	C3CS	1.5 - 2.5		10/11/2011	9:13								X	X		X
11B-0308-C2BS-C	11B-0308	C2BS	0.5 - 1.5		10/11/2011	8:29	X	X	X	X	X	X				X	
11B-0308-C3BS-C	11B-0308	C3BS	0.5 - 1.5		10/11/2011	9:13								X	X		X
11B-0331-C2DS-C	11B-0331	C2DS	2.5 - 3.5		10/12/2011	8:01	X	X	X	X	X	X	X		X	X	X
11B-0331-C3DS-C	11B-0331	C3DS	2.5 - 3.5		10/12/2011	9:01								X			
11B-0331-C2AS-C	11B-0331	C2AS	0 - 0.5		10/12/2011	8:01	X	X	X	X				X		X	
11B-0331-C3AS-C	11B-0331	C3AS	0 - 0.5		10/12/2011	9:01					X	X			X		X
11B-0331-G1AS-C	11B-0331	G1AS	grab		10/12/2011	10:06							X				
11B-0342-C5CS-C	11B-0342	C5CS	1.5 - 2.5		10/17/2011	10:06	X	X	X	X	X	X				X	
11B-0342-C6CS-C	11B-0342	C6CS	1.5 - 2.5		10/17/2011	11:03								X	X		X
11B-0342-C5BS-C	11B-0342	C5BS	0.5 - 1.5		10/17/2011	10:06	X	X	X	X	X	X				X	
11B-0342-C6BS-C	11B-0342	C6BS	0.5 - 1.5		10/17/2011	11:03								X	X		X
11B-0306-C3BS-C	11B-0306	C3BS	0.5 - 1.5		10/18/2011	13:21	X	X	X	X	X	X				X	
11B-0306-C1BS-C	11B-0306	C1BS	0.5 - 1.5		10/18/2011	11:33								X	X		X
11B-0306-C3CS-C	11B-0306	C3CS	1.5 - 2.5		10/18/2011	13:21	X	X	X	X	X	X				X	
11B-0306-C1CS-C	11B-0306	C1CS	1.5 - 2.5		10/18/2011	11:33								X	X		X
11B-0336-C5AS-C	11B-0336	C5AS	0.0 - 0.5		10/19/2011	10:20	X	X	X	X						X	
11B-0336-C9AS-C	11B-0336	C9AS	0.0 - 0.5		10/19/2011	13:11					X	X		X	X		X
11B-0336-C5AS-CX	11B-0336	C5AS	0.0 - 0.5	Dup	10/19/2011	10:20	X	X	X	X						X	



**CDM Split Sample Identification Table**  
**RM 10.9 Sediment Sampling Oversight**  
**Lower Passaic River Restoration Project**  
**Lower Passaic River, New Jersey**

Sample ID <sup>1</sup>	Location	Core No. /Interval	Depth (ft)	QC Sample <sup>2</sup>	Date Collected	Time Collected	PAHs	Pest	PCB Cong.	PCDD/ PCDF	SVOCs	Herb	VOCs	TPH	Met + Ti	Hg	TOC
11B-0336-C9AS-CX	11B-0336	C9AS	0.0 - 0.5	Dup	10/19/2011	13:11					X	X		X	X		X
11B-0336-C5DS-C	11B-0336	C5DS	2.5 - 3.5	MS/MSD	10/19/2011	10:20	X	X	X	X	X	X				X	
11B-0336-C9DS-C	11B-0336	C9DS	2.5 - 3.5	MS/MSD	10/19/2011	13:11								X	X		X
11B-0338-C1BS-C	11B-0338	C1BS	0.5 - 1.5		10/24/2011	7:54	X	X	X	X	X	X		X		X	
11B-0338-C3BS-C	11B-0338	C3BS	0.5 - 1.5		10/24/2011	9:11									X		X
11B-0338-C1CS-C	11B-0338	C1CS	1.5 - 2.5		10/24/2011	7:54	X	X	X	X	X	X		X		X	
11B-0338-C3CS-C	11B-0338	C3CS	1.5 - 2.5		10/24/2011	9:11									X		X
11B-0310-C3DS-C	11B-0310	C3DS	2.5 - 3.5		10/25/2011	7:55	X	X	X	X	X	X				X	
11B-0310-C5DS-C	11B-0310	C5DS	2.5 - 3.5		10/25/2011	9:29								X	X		X
11B-0310-C3CS-C	11B-0310	C3CS	1.5 - 2.5		10/25/2011	7:55	X	X	X	X	X	X				X	
11B-0310-C5CS-C	11B-0310	C5CS	1.5 - 2.5		10/25/2011	9:29								X	X		X
11B-0310-C3BS-C	11B-0310	C3BS	0.5 - 1.5		10/25/2011	7:55	X	X	X	X	X	X				X	
11B-0310-C5BS-C	11B-0310	C5BS	0.5 - 1.5		10/25/2011	9:29								X	X		X
11B-0302-C1DS-C	11B-0302	C1DS	2.5 - 3.5		10/26/2011	7:46							X				
11B-0349-C3AS-C	11B-0349	C3AS	0 - 0.5		11/2/2011	8:13	X	X	X	X						X	
11B-0349-G1AS-C	11B-0349	G1AS	grab		11/2/2011	11:11							X		X		X
11B-0349-C6AS-C	11B-0349	C6AS	0 - 0.5		11/2/2011	10:37					X	X		X			
11B-0349-C3DS-C	11B-0349	C3DS	2.5 - 3.5		11/2/2011	8:13	X	X	X	X	X	X	X			X	
11B-0349-C6DS-C	11B-0349	C6DS	2.5 - 3.5		11/2/2011	10:37								X	X		X
11B-0349-C3ES-C	11B-0349	C3ES	3.5 - 5.5		11/2/2011	8:13	X	X	X	X	X	X	X	X	X	X	X
11B-0346-G1AS-C	11B-0346	G1AS	grab		11/2/2011	13:35							X				
11B-0312-C1AS-C	11B-0312	C1AS	0 - 0.5		11/3/2011	11:47					X	X			X		X
11B-0312-C1BS-C	11B-0312	C1BS	0.5 - 1.5		11/3/2011	11:47					X	X			X		X
11B-0312-C1CS-C	11B-0312	C1CS	1.5 - 2.5		11/3/2011	11:47								X	X		X
11B-0312-C1DS-C	11B-0312	C1DS	2.5 - 3.5		11/3/2011	11:47								X	X		X
11B-0312-C2AS-C	11B-0312	C2AS	0 - 0.5		11/3/2011	12:46	X	X	X	X			X			X	
11B-0312-C2BS-C	11B-0312	C2BS	0.5 - 1.5		11/3/2011	12:46	X	X	X	X				X		X	
11B-0312-C2CS-C	11B-0312	C2CS	1.5 - 2.5		11/3/2011	12:46	X	X	X	X	X	X				X	

**CDM Split Sample Identification Table**  
**RM 10.9 Sediment Sampling Oversight**  
**Lower Passaic River Restoration Project**  
**Lower Passaic River, New Jersey**

Sample ID <sup>1</sup>	Location	Core No. /Interval	Depth (ft)	QC Sample <sup>2</sup>	Date Collected	Time Collected	PAHs	Pest	PCB Cong.	PCDD/ PCDF	SVOCs	Herb	VOCs	TPH	Met + Ti	Hg	TOC
11B-0312-C2DS-C	11B-0312	C2DS	2.5 - 3.5		11/3/2011	12:46	X	X	X	X	X	X	X			X	
11B-0312-G1AS-C	11B-0312	G1AS	grab		11/3/2011	13:09								X			

**Note:**

1. CDM sample IDs (listed in this table) match AECOM sample IDs, but have a "-C" at the end. CDM duplicate samples have a "-CX" at the end.
2. Rows highlighted in yellow indicate duplicate samples.

**Acronyms:**

Dup - duplicate

ft - feet

Herb - herbicides

Hg - mercury

ID - identification

Met - metals

MS/MSD - matrix spike/matrix spike duplicate

PAHs - polycyclic aromatic hydrocarbons

PCB Cong. - polychlorinated biphenyl congeners

PCDD - polychlorinated dibenzodioxins

PCDF - polychlorinated dibenzofurans

Pest - pesticides

SVOCs - semi-volatile organic compounds

Ti - titanium

TOC - total organic carbon

TPH - total petroleum hydrocarbons

VOCs - volatile organic compounds

**Attachment 3**  
**Copies of Signed Split Sample Chains-of-Custodies**




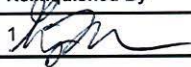
**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 9/21/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 874131919384 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 	9/21/11 1600			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY	
							Sample Condition On Receipt	
11B-0321-C4BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0321-C4BS-C	S: 9/20/2011 9:22		
11B-0321-C4CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0321-C4CS-C	S: 9/20/2011 9:22		
11B-0324-C1-A S-C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0324-C1AS-C	S: 9/21/2011 7:47		
11B-0324-C1DS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0324-C1DS-C	S: 9/21/2011 7:47		

<b>Shipment for Case Complete?</b> <input type="checkbox"/>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>
PAH/Pest/P = PAH_AlkyI PAH/Pest/PCB_C_H/PCDD_PCDF					

**TR Number: 2-260910770-092111-0001**

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**LABORATORY COPY**



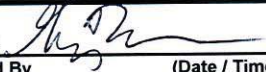
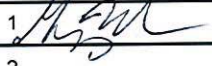
**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 9/21/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767111422848 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b> <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 	9/24/11 1600			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY	
							Sample Condition On Receipt	
11B-0321-C4BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0321-C4BS-C	S: 9/20/2011 9:22		
11B-0321-C4CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0321-C4CS-C	S: 9/20/2011 9:22		
11B-0324-C1-A S-C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0324-C1AS-C	S: 9/21/2011 7:47		
11B-0324-C1DS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0324-C1DS-C	S: 9/21/2011 7:47		

<b>Shipment for Case Complete?</b>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

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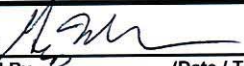

**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 9/21/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 876711142859 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b> <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 	9/21/11 16:00			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0321-C4BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0321-C4BS-C	S: 9/20/2011 9:22	
11B-0321-C4CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0321-C4CS-C	S: 9/20/2011 9:22	
11B-0321-C5BS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0321-C5BS-C	S: 9/20/2011 10:04	
11B-0321-C5CS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0321-C5CS-C	S: 9/20/2011 10:04	
11B-0324-C1-A S-C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0324-C1AS-C	S: 9/21/2011 7:47	
11B-0324-C1DS -C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0324-C1DS-C	S: 9/21/2011 7:47	
11B-0324-C2AS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0324-C2AS-C	S: 9/21/2011 8:33	
11B-0324-C2DS -C	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21)	(Ice Only) (2)	11B-0324-C2DS-C	S: 9/21/2011 8:33	
11B-0324-C3DS -C	Sediment/ George Molnar	L/G	TPH_ext (21)	(Ice Only) (1)	11B-0324-C3DS-C	S: 9/21/2011 9:13	
11B-0324-G1AS -C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0324-G1AS-C	S: 9/21/2011 9:44	

<b>Shipment for Case Complete?</b>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL					

**TR Number: 2-260910770-092111-0004**

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**USEPA Contract Laboratory Program  
Generic Chain of Custody**

Reference Case:

**R**

Client No:

<b>Region:</b> 2	<b>Date Shipped:</b> 9/21/2011	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> 
<b>Project Code:</b>	<b>Carrier Name:</b> Hand Deliver	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)
<b>Account Code:</b>	<b>Airbill:</b> Hand Deliver	1  9/21/11 1600	
<b>CERCLIS ID:</b> NJD980528996	<b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	2	
<b>Spill ID:</b> 96		3	
<b>Site Name/State:</b> Lower Passaic - 10.9 Sediment/NJ		4	
<b>Project Leader:</b> Sharon Budney			
<b>Action:</b> Combined RI/FS			
<b>Sampling Co:</b> CDM			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
11B-0321-C5 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0321-C5BS-C	S: 9/20/2011	10:04	--
11B-0321-C5 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0321-C5CS-C	S: 9/20/2011	10:04	--
11B-0324-C2 AS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0324-C2AS-C	S: 9/21/2011	8:33	--
11B-0324-C2 DS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0324-C2DS-C	S: 9/21/2011	8:33	--

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Shipment Iced?</b> _____

**TR Number: 2-260910770-092111-0002**

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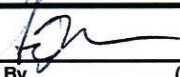
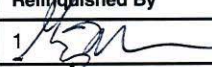
**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 9/28/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 875938820322 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 	9/28/11 1630			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11B-0311-C2AS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (2)	11B-0311-C2AS-C	S: 9/28/2011	9:04	
11B-0311-C2DS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0311-C2DS-C	S: 9/28/2011	9:04	
11B-0311-C2DS -CX	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0311-C2DS-CX	S: 9/28/2011	9:04	
11B-0319-C2BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0319-C2BS-C	S: 9/26/2011	8:39	
11B-0319-C2CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0319-C2CS-C	S: 9/26/2011	8:39	
11B-0335-C2CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0335-C2CS-C	S: 9/27/2011	8:14	
11B-0335-C2ES -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0335-C2ES-C	S: 9/27/2011	8:14	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0311-C2AS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-092811-0003**

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# USEPA Contract Laboratory Program Generic Chain of Custody

Reference Case:

R

Client No:

Region: 2	Date Shipped: 9/28/2011	<b>Chain of Custody Record</b> Relinquished By (Date / Time) Received By (Date / Time) 1 <i>[Signature]</i> 9/28/11 16:30 2 3 4	Sampler Signature: <i>[Signature]</i>
Project Code:	Carrier Name: Hand Deliver		
Account Code:	Airbill: hand delivery		
CERCLIS ID: NJD980528996	Shipped to: EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707		
Spill ID: 96			
Site Name/State: Lower Passaic - 10.9 Sediment/NJ			
Project Leader: Sharon Budney			
Action: Combined RI/FS			
Sampling Co: CDM			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
11B-0311-C4 AS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (2)	11B-0311-C4AS-C	S: 9/28/2011	10:09	--
11B-0311-C4 DS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0311-C4DS-C	S: 9/28/2011	10:09	--
11B-0311-C4 DS-CX	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0311-C4DS-CX	S: 9/28/2011	10:09	Field Duplicate
11B-0319-C1 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0319-C1BS-C	S: 9/26/2011	7:51	--
11B-0319-C1 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0319-C1CS-C	S: 9/26/2011	7:51	--
11B-0335-C2 ES-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0335-C2ES-C	S: 9/27/2011	8:14	--
11B-0335-C3 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0335-C3CS-C	S: 9/27/2011	9:03	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: TOC = Total Organic Carbon	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 2-260910770-092811-0002

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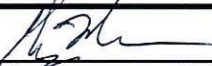
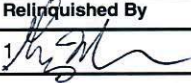
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F2/V51.043 Page 1 of 1



**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

<b>Reference Case</b>	
Client No:	<b>L</b>
SDG No:	
<b>For Lab Use Only</b>	
Lab Contract No:	
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

<b>Date Shipped:</b> 9/28/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8741319193300426 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>
	1 	9/28/11 1630	
	2		
	3		
4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT		FOR LAB USE ONLY
						DATE/TIME		Sample Condition On Receipt
11B-0311-C1AS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (2)	11B-0311-C1AS-C	S: 9/28/2011	8:16	
11B-0311-C1DS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	023-331 (Ice Only) (1)	11B-0311-C1DS-C	S: 9/28/2011	8:16	
11B-0311-C1DS -CX	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0311-C1DS-CX	S: 9/28/2011	8:16	
11B-0319-C2BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0319-C2BS-C	S: 9/26/2011	8:39	
11B-0319-C2CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0319-C2CS-C	S: 9/26/2011	8:39	
11B-0335-C2CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0335-C2CS-C	S: 9/27/2011	8:14	
11B-0335-C2ES -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0335-C2ES-C	S: 9/27/2011	8:14	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0311-C1AS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> PAH/Pest/P = PAH_Alkyl PAH/Pest/PCB_C_H/PCDD_PCDF	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-092811-0004**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

**LABORATORY COPY**





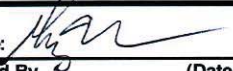

**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 9/28/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 875938820311 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 	7/28/11 1630			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0311-C1AS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (2)	11B-0311-C1AS-C	S: 9/28/2011 8:16	
11B-0311-C1DS -C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0311-C1DS-C	S: 9/28/2011 8:16	
11B-0311-C1DS -CX	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0311-C1DS-CX	S: 9/28/2011 8:16	
11B-0311-C2AS -C	Sediment/ George Molnar	L/G	TPH_ext (21)	(Ice Only) (2)	11B-0311-C2AS-C	S: 9/28/2011 9:04	
11B-0311-C2DS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0311-C2DS-C	S: 9/28/2011 9:04	
11B-0311-C2DS -CX	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0311-C2DS-CX	S: 9/28/2011 9:04	
11B-0311-C4AS -C	Sediment/ George Molnar	L/G	Metals plu (21)	(Ice Only) (2)	11B-0311-C4AS-C	S: 9/28/2011 10:09	
11B-0311-C4DS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0311-C4DS-C	S: 9/28/2011 10:09	
11B-0311-C4DS -CX	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0311-C4DS-CX	S: 9/28/2011 10:09	
11B-0311-G2A S-C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (16)	11B-0311-G2AS-C	S: 9/28/2011 11:36	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0311-C1AS-C, 11B-0311-C2AS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High			<b>Type/Designate:</b> Composite = C, Grab = G	<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL					

**TR Number: 2-260910770-092811-0001**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

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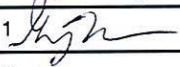
**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 9/28/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 875938820311 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>
	1 	9/28/11 1630	
	2		
	3		
4			
<b>For Lab Use Only</b>			
<b>Lab Contract No:</b>			
<b>Unit Price:</b>			
<b>Transfer To:</b>			
<b>Lab Contract No:</b>			
<b>Unit Price:</b>			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT		FOR LAB USE ONLY
						DATE/TIME		Sample Condition On Receipt
11B-0319-C1BS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0319-C1BS-C	S: 9/26/2011	7:51	
11B-0319-C1CS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0319-C1CS-C	S: 9/26/2011	7:51	
11B-0319-C2BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0319-C2BS-C	S: 9/26/2011	8:39	
11B-0319-C2CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0319-C2CS-C	S: 9/26/2011	8:39	
11B-0335-C2ES -C	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21), TPH_ext (21)	(Ice Only) (3)	11B-0335-C2ES-C	S: 9/27/2011	8:14	
11B-0335-C3CS -C	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21), TPH_ext (21)	(Ice Only) (3)	11B-0335-C3CS-C	S: 9/27/2011	9:03	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0311-C1AS-C, 11B-0311-C2AS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL				

**TR Number: 2-260910770-092811-0001**

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Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

**LABORATORY COPY**







**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/3/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3134 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
		10/3/11 1504			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0347-C3AS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0347-C3AS-C	S: 10/3/2011 8:27	
11B-0347-C3DS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0347-C3DS-C	S: 10/3/2011 8:27	

<b>Shipment for Case Complete?</b> <input type="checkbox"/>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-100311-0003**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-

**LABORATORY COPY**



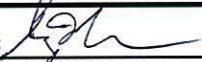

**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/3/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8741 3191 9351 0426 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 	10/3/11 1500			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0347-C2AS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0347-C2AS-C	S: 10/3/2011 7:45	
11B-0347-C2DS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0347-C2DS-C	S: 10/3/2011 7:45	

<b>Shipment for Case Complete?</b> <input type="checkbox"/>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> PAH/Pest/P = PAH_Alky PAH/Pest/PCB_C_H/PCDD_PCDF	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-100311-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

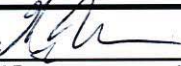
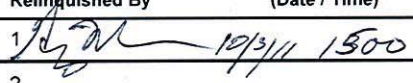
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-

**LABORATORY COPY**



**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

<b>Reference Case</b>
Client No: _____
SDG No: _____

<b>Date Shipped:</b> 10/3/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3123 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____
	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)	
	1  10/3/11 1500		
	2		
	3		
4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0347-C2AS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0347-C2AS-C	S: 10/3/2011 7:45	
11B-0347-C2DS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21), VOC TCL (21)	(Ice Only), (MeOH) (5)	11B-0347-C2DS-C	S: 10/3/2011 7:45	
11B-0347-C3AS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0347-C3AS-C	S: 10/3/2011 8:27	
11B-0347-C3DS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0347-C3DS-C	S: 10/3/2011 8:27	
11B-0347-G1AS -C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only) (4)	11B-0347-G1AS-C	S: 10/3/2011 9:39	

<b>Shipment for Case Complete?</b> <input type="checkbox"/>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL				

**TR Number: 2-260910770-100311-0004**

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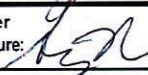
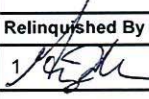


**USEPA Contract Laboratory Program  
Generic Chain of Custody**

Reference Case:

**R**

Client No:

<b>Region:</b> 2	<b>Date Shipped:</b> 10/3/2011	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> 	
<b>Project Code:</b>	<b>Carrier Name:</b> Hand Deliver		<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)
<b>Account Code:</b>	<b>Airbill:</b> hand delivery		1  10/3/11 1500	
<b>CERCLIS ID:</b> NJD980528996	<b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707		2	
<b>Spill ID:</b> 96			3	
<b>Site Name/State:</b> Lower Passaic - 10.9 Sediment/NJ		4		
<b>Project Leader:</b> Sharon Budney				
<b>Action:</b> Combined RI/FS				
<b>Sampling Co:</b> CDM				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
11B-0347-C3 AS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0347-C3AS-C	S: 10/3/2011	8:27	--
11B-0347-C3 DS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0347-C3DS-C	S: 10/3/2011	8:27	--

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Shipment Iced?</b> _____

**TR Number: 2-260910770-100311-0001**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**REGION COPY**





**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

Reference Case:

**R**

Client No:

<b>Region:</b> 2 <b>Project Code:</b> <b>Account Code:</b> <b>CERCLIS ID:</b> NJD980528996 <b>Spill ID:</b> 96 <b>Site Name/State:</b> Lower Passaic - 10.9 Sediment/NJ <b>Project Leader:</b> Sharon Budney <b>Action:</b> Combined RI/FS <b>Sampling Co:</b> CDM	<b>Date Shipped:</b> 10/12/2011 <b>Carrier Name:</b> Hand Deliver <b>Airbill:</b> hand delivery <b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	<b>Chain of Custody Record</b> <table border="1"><tr><td><b>Relinquished By</b></td><td><b>(Date / Time)</b></td><td><b>Received By</b></td><td><b>(Date / Time)</b></td></tr><tr><td>1 <i>[Signature]</i></td><td>10/12/11 1600</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td></tr></table>	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>	<b>(Date / Time)</b>	1 <i>[Signature]</i>	10/12/11 1600			2				3				4				<b>Sampler Signature:</b> <i>[Signature]</i>
<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>	<b>(Date / Time)</b>																				
1 <i>[Signature]</i>	10/12/11 1600																						
2																							
3																							
4																							

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
11B-0304-C2 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0304-C2BS-C	S: 10/10/2011 8:26	--
11B-0304-C2 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0304-C2CS-C	S: 10/10/2011 8:26	--
11B-0308-C3 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0308-C3BS-C	S: 10/11/2011 9:13	--
11B-0308-C3 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0308-C3CS-C	S: 10/11/2011 9:13	--
11B-0331-C2 DS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0331-C2DS-C	S: 10/12/2011 8:01	--
11B-0331-C3 AS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0331-C3AS-C	S: 10/12/2011 9:01	--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: TOC = Total Organic Carbon	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 2-260910770-101211-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**REGION COPY**



**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/12/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3101 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>[Signature]</i>	12/14/11 16:00			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0304-C1BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0304-C1BS-C	S: 10/10/2011 7:44	
11B-0304-C1CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0304-C1CS-C	S: 10/10/2011 7:44	
11B-0308-C2BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0308-C2BS-C	S: 10/11/2011 8:29	
11B-0308-C2CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0308-C2CS-C	S: 10/11/2011 8:29	
11B-0331-C2AS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0331-C2AS-C	S: 10/12/2011 8:01	
11B-0331-C2DS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0331-C2DS-C	S: 10/12/2011 8:01	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-101211-0003**

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**LABORATORY COPY**





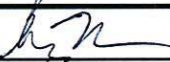
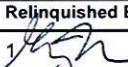
**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/12/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3112 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b> <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0304-C1BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21) (Ice Only) (1)		11B-0304-C1BS-C	S: 10/10/2011 7:44	
11B-0304-C1CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21) (Ice Only) (1)		11B-0304-C1CS-C	S: 10/10/2011 7:44	
11B-0304-C2BS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21) (Ice Only) (2)		11B-0304-C2BS-C	S: 10/10/2011 8:26	
11B-0304-C2CS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21) (Ice Only) (2)		11B-0304-C2CS-C	S: 10/10/2011 8:26	
11B-0308-C2BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21) (Ice Only) (1)		11B-0308-C2BS-C	S: 10/11/2011 8:29	
11B-0308-C2CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21) (Ice Only) (1)		11B-0308-C2CS-C	S: 10/11/2011 8:29	
11B-0308-C3BS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21) (Ice Only) (2)		11B-0308-C3BS-C	S: 10/11/2011 9:13	
11B-0308-C3CS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21) (Ice Only) (2)		11B-0308-C3CS-C	S: 10/11/2011 9:13	
11B-0331-C2AS -C	Sediment/ George Molnar	L/G	TPH_ext (21) (Ice Only) (1)		11B-0331-C2AS-C	S: 10/12/2011 8:01	
11B-0331-C2DS -C	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21), VOC TCL (21) (Ice Only), (MeOH) (6)		11B-0331-C2DS-C	S: 10/12/2011 8:01	

<b>Shipment for Case Complete?</b> <input type="checkbox"/>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>
<b>Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL</b>					

**TR Number: 2-260910770-101211-0004**

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818

F2V5.1.043 Page 1 of 2



**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

<b>Reference Case</b>
Client No: _____
SDG No: _____

**L**

<b>Date Shipped:</b> 10/12/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3112 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____
	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)	
	1 <i>[Signature]</i> 10/12/11 16:00		
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY	
							Sample Condition On Receipt	
11B-0331-C3AS -C	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21)	(Ice Only) (2)	11B-0331-C3AS-C	S: 10/12/2011 9:01		
11B-0331-C3DS -C	Sediment/ George Molnar	L/G	TPH_ext (21)	(Ice Only) (1)	11B-0331-C3DS-C	S: 10/12/2011 9:01		
11B-0331-G1AS -C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0331-G1AS-C	S: 10/12/2011 10:06		

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL					

**TR Number: 2-260910770-101211-0004**

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**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/12/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8741 3191 9373 0426 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b> <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
		10/11/11 6:00			
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	3				
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT		FOR LAB USE ONLY
						DATE/TIME		Sample Condition On Receipt
11B-0304-C1BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0304-C1BS-C	S: 10/10/2011	7:44	
11B-0304-C1CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0304-C1CS-C	S: 10/10/2011	7:44	
11B-0308-C2BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0308-C2BS-C	S: 10/11/2011	8:29	
11B-0308-C2CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0308-C2CS-C	S: 10/11/2011	8:29	
11B-0331-C2AS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0331-C2AS-C	S: 10/12/2011	8:01	
11B-0331-C2DS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0331-C2DS-C	S: 10/12/2011	8:01	

<b>Shipment for Case Complete?</b> <input checked="" type="checkbox"/>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> PAH/Pest/P = PAH_Alky PAH/Pest/PCB_C_H/PCDD_PCDF	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-101211-0001**

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F2V5.1.043 Page 1 of 1



**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

Date Shipped: 10/12/2011  
Carrier Name: Hand Deliver  
Airbill: hand delivery  
Shipped to: EPA-DESA laboratory  
2890 Woodbridge Ave  
Bldg. 209, MS-230  
Edison NJ 08837  
(732) 321-6707

**Chain of Custody Record**

Relinquished By (Date / Time)

1 *[Signature]* 10/12/11 1600

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Sampler  
Signature: *[Signature]*

Received By (Date / Time)

**For Lab Use Only**

Lab Contract No: \_\_\_\_\_

Unit Price: \_\_\_\_\_

Transfer To: \_\_\_\_\_

Lab Contract No: \_\_\_\_\_

Unit Price: \_\_\_\_\_

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT		FOR LAB USE ONLY
						DATE/TIME		Sample Condition On Receipt
11B-0304-C2BS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0304-C2BS-C	S: 10/10/2011	8:26	
11B-0304-C2CS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0304-C2CS-C	S: 10/10/2011	8:26	
11B-0308-C3BS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0308-C3BS-C	S: 10/11/2011	9:13	
11B-0308-C3CS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0308-C3CS-C	S: 10/11/2011	9:13	
11B-0331-C2DS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0331-C2DS-C	S: 10/12/2011	8:01	
11B-0331-C3AS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0331-C3AS-C	S: 10/12/2011	9:01	

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>
TOC = Total Organic Carbon				

TR Number: **2-260910770-101211-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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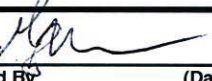
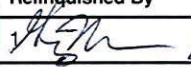
**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/19/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3145 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b> <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
		10/19/11 1700			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0306-C1BS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0306-C1BS-C	S: 10/18/2011 11:33	
11B-0306-C1CS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0306-C1CS-C	S: 10/18/2011 11:33	
11B-0306-C3BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0306-C3BS-C	S: 10/18/2011 13:21	
11B-0306-C3CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0306-C3CS-C	S: 10/18/2011 13:21	
11B-0336-C5DS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21), VOC TCL (21)	(Ice Only), (MeOH) (6)	11B-0336-C5DS-C	S: 10/19/2011 10:20	
11B-0336-C9AS -C	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21), TPH_ext (21)	(Ice Only) (3)	11B-0336-C9AS-C	S: 10/19/2011 13:11	
11B-0336-C9AS -CX	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21), TPH_ext (21)	(Ice Only) (3)	11B-0336-C9AS-CX	S: 10/19/2011 13:11	
11B-0336-C9DS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (4)	11B-0336-C9DS-C	S: 10/19/2011 13:11	
11B-0342-C5BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0342-C5BS-C	S: 10/17/2011 10:06	
11B-0342-C5CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0342-C5CS-C	S: 10/17/2011 10:06	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0336-C5DS-C, 11B-0336-C9DS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-101911-0006**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/19/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3145 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	<i>[Signature]</i>	10/19/11 1700			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0342-C6BS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0342-C6BS-C	S: 10/17/2011 11:03	
11B-0342-C6CS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0342-C6CS-C	S: 10/17/2011 11:03	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0336-C5DS-C, 11B-0336-C9DS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL					

**TR Number: 2-260910770-101911-0006**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

**LABORATORY COPY**



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/19/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8767 1114 3156 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>[Signature]</i>	10/19/11 1200			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0306-C3BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0306-C3BS-C	S: 10/18/2011 13:21	
11B-0306-C3CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0306-C3CS-C	S: 10/18/2011 13:21	
11B-0336-C5AS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0336-C5AS-C	S: 10/19/2011 10:20	
11B-0336-C5AS -CX	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0336-C5AS-CX	S: 10/19/2011 10:20	
11B-0336-C5DS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (2)	11B-0336-C5DS-C	S: 10/19/2011 10:20	
11B-0342-C5BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0342-C5BS-C	S: 10/17/2011 10:06	
11B-0342-C5CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0342-C5CS-C	S: 10/17/2011 10:06	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0336-C5DS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-101911-0003**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**LABORATORY COPY**



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/19/2011 <b>Carrier Name:</b> Hand Deliver <b>Airbill:</b> hand delivery <b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	<i>[Signature]</i>	10/19/11 1200			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0306-C1BS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0306-C1BS-C	S: 10/18/2011 11:33	
11B-0306-C1CS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0306-C1CS-C	S: 10/18/2011 11:33	
11B-0336-C9AS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0336-C9AS-C	S: 10/19/2011 13:11	
11B-0336-C9AS -CX	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0336-C9AS-CX	S: 10/19/2011 13:11	
11B-0336-C9DS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (2)	11B-0336-C9DS-C	S: 10/19/2011 13:11	
11B-0342-C6BS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0342-C6BS-C	S: 10/17/2011 11:03	
11B-0342-C6CS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0342-C6CS-C	S: 10/17/2011 11:03	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0336-C9DS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-101911-0005**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**LABORATORY COPY**





**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/19/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8741 3191 9395 0426 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b> <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>[Signature]</i>	10/19/11 1700			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0306-C3BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0306-C3BS-C	S: 10/18/2011 13:21	
11B-0306-C3CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0306-C3CS-C	S: 10/18/2011 13:21	
11B-0336-C5AS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0336-C5AS-C	S: 10/19/2011 10:20	
11B-0336-C5AS -CX	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0336-C5AS-CX	S: 10/19/2011 10:20	
11B-0336-C5DS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (2)	11B-0336-C5DS-C	S: 10/19/2011 10:20	
11B-0342-C5BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0342-C5BS-C	S: 10/17/2011 10:06	
11B-0342-C5CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0342-C5CS-C	S: 10/17/2011 10:06	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0336-C5DS-C	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> PAH/Pest/P = PAH_AlkyI PAH/Pest/PCB_C_H/PCDD_PCDF	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-101911-0001**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**LABORATORY COPY**



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

Reference Case:

**R**

Client No:

<b>Region:</b> 2	<b>Date Shipped:</b> 10/19/2011	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> 
<b>Project Code:</b>	<b>Carrier Name:</b> Hand Deliver	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)
<b>Account Code:</b>	<b>Airbill:</b> hand delivery	 10/19/11 2:00	
<b>CERCLIS ID:</b> NJD980528996	<b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	2	
<b>Spill ID:</b> 96		3	
<b>Site Name/State:</b> Lower Passaic - 10.9 Sediment/NJ		4	
<b>Project Leader:</b> Sharon Budney			
<b>Action:</b> Combined RI/FS			
<b>Sampling Co:</b> CDM			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
11B-0306-C1 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0306-C1BS-C	S: 10/18/2011 11:33	--
11B-0306-C1 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0306-C1CS-C	S: 10/18/2011 11:33	--
11B-0336-C9 AS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0336-C9AS-C	S: 10/19/2011 13:11	--
11B-0336-C9 AS-CX	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0336-C9AS-CX	S: 10/19/2011 13:11	Field Duplicate
11B-0336-C9 DS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (2)	11B-0336-C9DS-C	S: 10/19/2011 13:11	--
11B-0342-C6 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0342-C6BS-C	S: 10/17/2011 11:03	--
11B-0342-C6 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0342-C6CS-C	S: 10/17/2011 11:03	--

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b> 11B-0336-C9DS-C	<b>Additional Sampler Signature(s):</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Shipment Iced?</b> _____

**TR Number: 2-260910770-101911-0005**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**REGION COPY**



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/26/2011 <b>Carrier Name:</b> Hand Deliver <b>Airbill:</b> hand delivery <b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>[Signature]</i>	10/26/11 1500			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0310-C5BS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0310-C5BS-C	S: 10/25/2011 9:29	
11B-0310-C5CS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0310-C5CS-C	S: 10/25/2011 9:29	
11B-0310-C5DS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0310-C5DS-C	S: 10/25/2011 9:29	
11B-0338-C3BS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0338-C3BS-C	S: 10/24/2011 9:11	
11B-0338-C3CS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0338-C3CS-C	S: 10/24/2011 9:11	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> ___ <b>Shipment Iced?</b> ___

**TR Number: 2-260910770-102611-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**LABORATORY COPY**





**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/26/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8759 1181 2556 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>[Signature]</i>	10/26/11 1200			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0302-C1DS -C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0302-C1DS-C	S: 10/26/2011 7:46	
11B-0310-C3BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0310-C3BS-C	S: 10/25/2011 7:55	
11B-0310-C3CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0310-C3CS-C	S: 10/25/2011 7:55	
11B-0310-C3DS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0310-C3DS-C	S: 10/25/2011 7:55	
11B-0310-C5BS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0310-C5BS-C	S: 10/25/2011 9:29	
11B-0310-C5CS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0310-C5CS-C	S: 10/25/2011 9:29	
11B-0310-C5DS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0310-C5DS-C	S: 10/25/2011 9:29	
11B-0338-C1BS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21), TPH_ext (21)	(Ice Only) (2)	11B-0338-C1BS-C	S: 10/24/2011 7:54	
11B-0338-C1CS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21), TPH_ext (21)	(Ice Only) (2)	11B-0338-C1CS-C	S: 10/24/2011 7:54	
11B-0338-C3BS -C	Sediment/ George Molnar	L/G	Metals plu (21)	(Ice Only) (1)	11B-0338-C3BS-C	S: 10/24/2011 9:11	

<b>Shipment for Case Complete?</b> <input type="checkbox"/>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>
<b>Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL</b>					

**TR Number: 2-260910770-102611-0004**

**LABORATORY COPY**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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F2V5.1.043 Page 1 of 2



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/26/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8759 1181 2556 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>[Signature]</i>	10/26/11 1500			
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SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0338-C3CS -C	Sediment/ George Molnar	L/G	Metals plu (21)	(Ice Only) (1)	11B-0338-C3CS-C	S: 10/24/2011 9:11	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL					

**TR Number: 2-260910770-102611-0004**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**LABORATORY COPY**



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 10/26/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8759 1181 2545 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>[Signature]</i>	10/26/11 1500			
	2				
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4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0310-C3BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0310-C3BS-C	S: 10/25/2011 7:55	
11B-0310-C3CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0310-C3CS-C	S: 10/25/2011 7:55	
11B-0310-C3DS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0310-C3DS-C	S: 10/25/2011 7:55	
11B-0338-C1BS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0338-C1BS-C	S: 10/24/2011 7:54	
11B-0338-C1CS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0338-C1CS-C	S: 10/24/2011 7:54	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> ___ <b>Shipment Iced?</b> ___

**TR Number: 2-260910770-102611-0003**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-






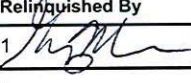
**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

L

<b>Date Shipped:</b> 10/26/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8741 3191 9329 0426 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>
	1 	10/26/11 1500	
	2		
	3		
4			
<b>For Lab Use Only</b>			
<b>Lab Contract No:</b>			
<b>Unit Price:</b>			
<b>Transfer To:</b>			
<b>Lab Contract No:</b>			
<b>Unit Price:</b>			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0310-C3BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21) (Ice Only) (1)		11B-0310-C3BS-C	S: 10/25/2011 7:55	
11B-0310-C3CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21) (Ice Only) (1)		11B-0310-C3CS-C	S: 10/25/2011 7:55	
11B-0310-C3DS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21) (Ice Only) (1)		11B-0310-C3DS-C	S: 10/25/2011 7:55	
11B-0338-C1BS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21) (Ice Only) (1)		11B-0338-C1BS-C	S: 10/24/2011 7:54	
11B-0338-C1CS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21) (Ice Only) (1)		11B-0338-C1CS-C	S: 10/24/2011 7:54	

<b>Shipment for Case Complete?</b>	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>
<b>PAH/Pest/P = PAH_Alkyl PAH/Pest/PCB_C_H/PCDD_PCDF</b>					

**TR Number: 2-260910770-102611-0001**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4201

LABORATORY COPY



**EPA USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

Reference Case:

Client No:

**R**

<b>Region:</b> 2	<b>Date Shipped:</b> 10/26/2011	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> 
<b>Project Code:</b>	<b>Carrier Name:</b> Hand Deliver	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)
<b>Account Code:</b>	<b>Airbill:</b> hand delivery	 10/24/11 1500	
<b>CERCLIS ID:</b> NJD980528996	<b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	2	
<b>Spill ID:</b> 96		3	
<b>Site Name/State:</b> Lower Passaic - 10.9 Sediment/NJ		4	
<b>Project Leader:</b> Sharon Budney			
<b>Action:</b> Combined RI/FS			
<b>Sampling Co:</b> CDM			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
11B-0310-C5 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0310-C5BS-C	S: 10/25/2011 9:29	--
11B-0310-C5 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0310-C5CS-C	S: 10/25/2011 9:29	--
11B-0310-C5 DS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0310-C5DS-C	S: 10/25/2011 9:29	--
11B-0338-C3 BS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0338-C3BS-C	S: 10/24/2011 9:11	--
11B-0338-C3 CS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0338-C3CS-C	S: 10/24/2011 9:11	--

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Shipment Iced?</b> _____

**TR Number: 2-260910770-102611-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-




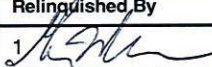
**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 11/2/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8741 3191 9362 0426 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 	11/2/11 1630			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0349-C3AS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0349-C3AS-C	S: 11/2/2011 8:13	
11B-0349-C3DS -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0349-C3DS-C	S: 11/2/2011 8:13	
11B-0349-C3ES -C	Sediment/ George Molnar	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0349-C3ES-C	S: 11/2/2011 8:13	

<b>Shipment for Case Complete?</b> Y	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
PAH/Pest/P = PAH_Alkyl PAH/Pest/PCB_C_H/PCDD_PCDF					

**TR Number: 2-260910770-110211-0001**

**LABORATORY COPY**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

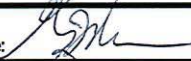
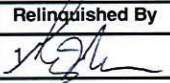
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81





**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

<b>Reference Case</b>	
Client No:	<b>L</b>
SDG No:	
<b>For Lab Use Only</b>	
Lab Contract No:	
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

<b>Date Shipped:</b> 11/2/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8759 1181 2578 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>
	 11/2/11 1630		
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4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT		FOR LAB USE ONLY Sample Condition On Receipt
						DATE/TIME		
11B-0349-C3AS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0349-C3AS-C	S: 11/2/2011	8:13	
11B-0349-C3DS -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0349-C3DS-C	S: 11/2/2011	8:13	
11B-0349-C3ES -C	Sediment/ George Molnar	L/G	Mercury - (21)	(Ice Only) (1)	11B-0349-C3ES-C	S: 11/2/2011	8:13	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-110211-0003**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

**LABORATORY COPY**




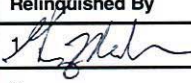
**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

L

<b>Date Shipped:</b> 11/2/2011 <b>Carrier Name:</b> Hand Deliver <b>Airbill:</b> hand delivery <b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> 	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
		11/2/11 1630			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0349-C3ES -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0349-C3ES-C	S: 11/2/2011 8:13	
11B-0349-C6DS -C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0349-C6DS-C	S: 11/2/2011 10:37	
11B-0349-G1A S-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0349-G1AS-C	S: 11/2/2011 11:11	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> ___ <b>Shipment Iced?</b> ___

**TR Number: 2-260910770-110211-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

<b>Reference Case</b>	
Client No:	<b>L</b>
SDG No:	
<b>For Lab Use Only</b>	
Lab Contract No:	
Unit Price:	
Transfer To:	
Lab Contract No:	
Unit Price:	

<b>Date Shipped:</b> 11/2/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8759 1181 2589 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>[Signature]</i>
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>
	1 <i>[Signature]</i>	11/2/11 630	
	2		
	3		
4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11B-0346-G1A S-C	Sediment/ George Molnar	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0346-G1AS-C	S: 11/2/2011	13:35	
11B-0349-C3DS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21), VOC TCL (21)	(Ice Only), (MeOH) (5)	11B-0349-C3DS-C	S: 11/2/2011	8:13	
11B-0349-C3ES -C	Sediment/ George Molnar	L/G	Metals plu (21), SVOCs/Herb (21), TPH_ext (21), VOC TCL (21)	(Ice Only), (MeOH) (7)	11B-0349-C3ES-C	S: 11/2/2011	8:13	
11B-0349-C6AS -C	Sediment/ George Molnar	L/G	SVOCs/Herb (21), TPH_ext (21)	(Ice Only) (2)	11B-0349-C6AS-C	S: 11/2/2011	10:37	
11B-0349-C6DS -C	Sediment/ George Molnar	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0349-C6DS-C	S: 11/2/2011	10:37	
11B-0349-G1A S-C	Sediment/ George Molnar	L/G	Metals plu (21), VOC TCL (21)	(Ice Only), (MeOH) (5)	11B-0349-G1AS-C	S: 11/2/2011	11:11	

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL				

**TR Number: 2-260910770-110211-0004**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

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**USEPA Contract Laboratory Program**  
**Generic Chain of Custody**

Reference Case:

R

Client No:

<b>Region:</b> 2	<b>Date Shipped:</b> 11/2/2011	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> 
<b>Project Code:</b>	<b>Carrier Name:</b> Hand Deliver	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)
<b>Account Code:</b>	<b>Airbill:</b> hand delivery	 11/2/11 1630	
<b>CERCLIS ID:</b> NJD980528996	<b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707	2	
<b>Spill ID:</b> 96		3	
<b>Site Name/State:</b> Lower Passaic - 10.9 Sediment/NJ		4	
<b>Project Leader:</b> Sharon Budney			
<b>Action:</b> Combined RI/FS			
<b>Sampling Co:</b> CDM			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
11B-0349-C3 ES-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0349-C3ES-C	S: 11/2/2011 8:13	--
11B-0349-C6 DS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0349-C6DS-C	S: 11/2/2011 10:37	--
11B-0349-G1 AS-C	Sediment/ George Molnar	L/G	TOC (21)	(Ice Only) (1)	11B-0349-G1AS-C	S: 11/2/2011 11:11	--

<b>Shipment for Case Complete?</b> N	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> TOC = Total Organic Carbon	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Shipment Iced?</b> _____

TR Number: 2-260910770-110211-0002

**REGION COPY**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 11/7/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8763 6479 4958 0426 <b>Shipped to:</b> AXYS Analytical Services Ltd. 2045 Mills Road W. Sidney BC V8L 5X2 (888) 373-0881	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>SOH</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____	
	<b>Relinquished By</b>	<b>(Date / Time)</b>	<b>Received By</b>		<b>(Date / Time)</b>
	1 <i>Sean O'Hare</i>	<i>11/7/11 10:30</i>			
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0312-C2AS -C	Sediment/ Sean O'Hare	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0312-C2AS-C	S: 11/3/2011 12:46	
11B-0312-C2BS -C	Sediment/ Sean O'Hare	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0312-C2BS-C	S: 11/3/2011 12:46	
11B-0312-C2CS -C	Sediment/ Sean O'Hare	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0312-C2CS-C	S: 11/3/2011 12:46	
11B-0312-C2DS -C	Sediment/ Sean O'Hare	L/G	PAH/Pest/P (21)	(Ice Only) (1)	11B-0312-C2DS-C	S: 11/3/2011 12:46	

<b>Shipment for Case Complete?</b> Y	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b> PAH/Pest/P = PAH_Alkyl PAH/Pest/PCB_C_H/PCDD_PCDF	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-110411-0001**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

**LABORATORY COPY**



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

Reference Case:

Client No:

**R**

<b>Region:</b> 2	<b>Date Shipped:</b> 11/4/2011	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> <i>SOH</i>	
<b>Project Code:</b>	<b>Carrier Name:</b> Hand Deliver		<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)
<b>Account Code:</b>	<b>Airbill:</b> hand delivery		1 <i>Sean O'Hare</i> 11/4/11 10:30	
<b>CERCLIS ID:</b> NJD980528996	<b>Shipped to:</b> EPA-DESA laboratory 2890 Woodbridge Ave Bldg. 209, MS-230 Edison NJ 08837 (732) 321-6707		2	
<b>Spill ID:</b> 96			3	
<b>Site Name/State:</b> Lower Passaic - 10.9 Sediment/NJ		4		
<b>Project Leader:</b> Sharon Budney				
<b>Action:</b> Combined RI/FS				
<b>Sampling Co:</b> CDM				

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		QC Type
11B-0312-C1 AS-C	Sediment/ Sean O'Hare	L/G	TOC (21)	(Ice Only) (1)	11B-0312-C1AS-C	S: 11/3/2011	11:47	--
11B-0312-C1 BS-C	Sediment/ Sean O'Hare	L/G	TOC (21)	(Ice Only) (1)	11B-0312-C1BS-C	S: 11/3/2011	11:47	--
11B-0312-C1 CS-C	Sediment/ Sean O'Hare	L/G	TOC (21)	(Ice Only) (1)	11B-0312-C1CS-C	S: 11/3/2011	11:47	--
11B-0312-C1 DS-C	Sediment/ Sean O'Hare	L/G	TOC (21)	(Ice Only) (1)	11B-0312-C1DS-C	S: 11/3/2011	11:47	--

<b>Shipment for Case Complete?</b> Y	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Shipment Iced?</b> _____
TOC = Total Organic Carbon			

**TR Number: 2-260910770-110411-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-

**REGION COPY**





**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 11/7/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8759 1181 2567 <b>Shipped to:</b> Microbac Laboratories, Inc. 250 W. 84th Drive Merrillville IN 46410 (219) 769-8378	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> <i>SOH</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____  <b>Transfer To:</b> _____  <b>Lab Contract No:</b> _____  <b>Unit Price:</b> _____
	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)	
	1 <i>Sean O'Hare</i> 11/7/11 10:30		
	2		
	3		
4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
11B-0312-C2AS -C	Sediment/ Sean O'Hare	L/G	Mercury - (21)	(Ice Only) (1)	11B-0312-C2AS-C	S: 11/3/2011	12:46	
11B-0312-C2BS -C	Sediment/ Sean O'Hare	L/G	Mercury - (21)	(Ice Only) (1)	11B-0312-C2BS-C	S: 11/3/2011	12:46	
11B-0312-C2CS -C	Sediment/ Sean O'Hare	L/G	Mercury - (21)	(Ice Only) (1)	11B-0312-C2CS-C	S: 11/3/2011	12:46	
11B-0312-C2DS -C	Sediment/ Sean O'Hare	L/G	Mercury - (21)	(Ice Only) (1)	11B-0312-C2DS-C	S: 11/3/2011	12:46	

<b>Shipment for Case Complete?</b> Y	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>
<b>Analysis Key:</b> Mercury - = Mercury - Hg	<b>Concentration:</b> L = Low, M = Low/Medium, H = High	<b>Type/Designate:</b> Composite = C, Grab = G	<b>Custody Seal Intact?</b> <input type="checkbox"/>	<b>Shipment Iced?</b> <input type="checkbox"/>

**TR Number: 2-260910770-110411-0003**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**LABORATORY COPY**



**USEPA Contract Laboratory Program  
Generic Chain of Custody**

**Reference Case**

Client No:

SDG No:

**L**

<b>Date Shipped:</b> 11/4/2011 <b>Carrier Name:</b> FedEx <b>Airbill:</b> 8770 3827 2994 <b>Shipped to:</b> Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700	<b>Chain of Custody Record</b>	<b>Sampler Signature:</b> <i>SOH</i>	<b>For Lab Use Only</b>  <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____ <b>Transfer To:</b> _____ <b>Lab Contract No:</b> _____ <b>Unit Price:</b> _____
	<b>Relinquished By</b> (Date / Time)	<b>Received By</b> (Date / Time)	
	1 <i>Sean O'Hare</i> 11/4/11 10:30		
	2		
	3		
4			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
11B-0312-C1AS -C	Sediment/ Sean O'Hare	L/G	Metals plu (21), SVOCs/Herb (21)	(Ice Only) (2)	11B-0312-C1AS-C	S: 11/3/2011 11:47	
11B-0312-C1BS -C	Sediment/ Sean O'Hare	L/G	Metals plu (21), SVOCs/Herb (21)	(Ice Only) (2)	11B-0312-C1BS-C	S: 11/3/2011 11:47	
11B-0312-C1CS -C	Sediment/ Sean O'Hare	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0312-C1CS-C	S: 11/3/2011 11:47	
11B-0312-C1DS -C	Sediment/ Sean O'Hare	L/G	Metals plu (21), TPH_ext (21)	(Ice Only) (2)	11B-0312-C1DS-C	S: 11/3/2011 11:47	
11B-0312-C2AS -C	Sediment/ Sean O'Hare	L/G	VOC TCL (21)	(Ice Only), (MeOH) (4)	11B-0312-C2AS-C	S: 11/3/2011 12:46	
11B-0312-C2BS -C	Sediment/ Sean O'Hare	L/G	TPH_ext (21)	(Ice Only) (1)	11B-0312-C2BS-C	S: 11/3/2011 12:46	
11B-0312-C2CS -C	Sediment/ Sean O'Hare	L/G	SVOCs/Herb (21)	(Ice Only) (1)	11B-0312-C2CS-C	S: 11/3/2011 12:46	
11B-0312-C2DS -C	Sediment/ Sean O'Hare	L/G	SVOCs/Herb (21), VOC TCL (21)	(Ice Only), (MeOH) (5)	11B-0312-C2DS-C	S: 11/3/2011 12:46	
11B-0312-G1A S-C	Sediment/ Sean O'Hare	L/G	TPH_ext (21)	(Ice Only) (1)	11B-0312-G1AS-C	S: 11/3/2011 13:09	

<b>Shipment for Case Complete?</b> Y	<b>Sample(s) to be used for laboratory QC:</b>	<b>Additional Sampler Signature(s):</b>	<b>Cooler Temperature Upon Receipt:</b>	<b>Chain of Custody Seal Number:</b>	
<b>Analysis Key:</b>	<b>Concentration:</b> L = Low, M = Low/Medium, H = High		<b>Type/Designate:</b> Composite = C, Grab = G		<b>Custody Seal Intact?</b> <input type="checkbox"/> <b>Shipment Iced?</b> <input type="checkbox"/>
Metals plu = Metals_Ti, SVOCs/Herb = SVOCs/Herbicides, TPH_ext = TPH extractables, VOC TCL = VOC TCL					

**TR Number: 2-260910770-110411-0004**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/81

**LABORATORY COPY**

**Attachment 4**  
**Copies of Field Logbook Notes**



Location Passaic River Date 8/24/11  
Project / Client Rm 10.9  
Oversight of AECOM

805 - Drilling 2nd core - going to 10' in attempt to reach the red clay  
835 - let core sit for about 10 minutes. Some material / soil fell out the bottom when the core came up

8.3' recovery 2nd core. 8.2 1st core  
915- [ 11B-34 11-34 ] mob 8124111  
anchored Depth

\* Goal for both is 7.5' - however attempt to reach clay layer. Want 1' for + buffer

Core 1: No recovery - 952

10.05 Bottom to H<sub>2</sub>O Surface: 10.4'

Core 2: 10' feet penetration - let sit  
for 10 minutes ————— 8/27/11

★ Red clay at Bottom Recovery: 9.8'

1056 - 2nd boat picked up core samples  
115-341; one more and clam shell

Then moving to 11B-354 got two ceres  
and clamshell. No clamshell at

11B-301, thinking about discarding sample - need to go deeper based on APO

11<sup>30</sup> back at CPG Facility: lunch

12<sup>00</sup> Oversee processing of samples

Sample ID 11B-0341-C2AS 8/24/11  
met

Location Passaic River Date 8/24/11  
Project / Client Rm 10.9  
Oversight of AECOM

1350 - Secondary Cove at 11B-0341 -  
Had 9 attempts at grab sample -  
Could not get sufficient volume  
Boat crew coming back to facility

## Sampling Protocol

1<sup>st</sup> Station of the day, and the 1<sup>st</sup> 3 days of the week = QC samples  
- 50 - 60 samples a week

- 10% vs. 20% - Rob Conjunction
- Fewer splits from the top due to volume limitation

Kristen Durocher AEO<sup>603-</sup> 581-6608  
 ml <sup>812/1114</sup> Chris Kriš VanHorsen 978-844-4591  
 1430 mel Kobale offsite ✓

~~melk~~



Location Passaic River Date 8/25/11  
 Project / Client Rm 10.9  
Oversight of AECOM

525- Mel Kobule (mk) COM on site  
 Boat & Field Crews mobilizing ~ 8/25/11  
 AECOM: David Sheving, Kris VanNassasin,  
 Mike Hauser, and Jeff Heller  
 Crew is decontaminating acetate liners  
 PPE: Level D modified - life vest ~ 8/25/11  
 Weather: Clear skies 90°F - Sunny

615 Launching to Station 1D - 11B-0339

AECOM performed Health & Safety Meeting

705 Core #1: Depth of Water: 6.4 Feet

\* Waited 10 min to plug core / cut in sections  
 Recovery: 9.4' No red clay or refusal  
 encountered: disregarding sample  
 - 20 feet vibrocore sampler coming out man.

750 At Station 1D 11B-0353

805 Core #1: Depth of Water: 13.7 feet

Wait 10 minutes to plug core / cut section  
 Recovery: 7.9' Red Clay present  
 to approximately 2' looking through liner  
 Some material fell about bottom - on  
 not going to sample bottom of clay

855 Core #2: Depth of Water: 14.1 feet

4-foot secondary core - Recovery - 2.10'

Boat picked up Core #1 11B-0353

mk

8/25/11

Location Passaic River Date 8/25/11  
 Project / Client Rm 10.9  
Oversight of AECOM

940 - Crew collecting additional cores  
 for QC purposes -

950 Core #3: Depth of Water: 13.0'

Recovery: 2.8' - disregard core need  
 more volume. ~ 8/25/11

Core #4:

In 8/25/11

Note: Outfall on eastern side opened  
 up right before drilling <sup>clam shell</sup> Core #4 mk  
 - 1030 Due to weather, and poor recovery, <sup>best</sup> ~~scratching~~

QC sample at 11B-0353 mk moving  
 to facility to oversee processing

<sup>mk</sup> Boat crew moving to Station 1D 11B-0334  
 8/25/11

1040 Boat crew attempting grab sample  
 with clam shell at 11B-0353

1115 mk overseeing sample processing  
 of 11B-0353. ~ 8/25/11

1215 - Weather turned - thunderstorm  
 Boat crew back. Got full clam  
 shell grab sample - mk oversee  
 processing ~ 8/25/11

1220 - Waiting for thunderstorm to  
 pass to decide if going will 8/25/11  
 Continue for the day

Mel

8/25/11



1305 - Power grab is being installed on boat. still undecided if further sampling will occur. <sup>8/25/11</sup>

Note: Grab has not been processed as of yet - did not oversee

0530 - P. Connolly (PC) of COM on site at field facility. Meets with Sharon Budney to get hardcopies of WAPP, etc.

0550 - S. Budney of FV site. PC meets M. Houser and K. VanNauwen of Aecom. KV gives PC facility tour and brief H+S overview.

0610 - PC and KV go to dock. Aecom and Gravity personnel are <sup>rc 9-14-11</sup> preparing to load equipment onto boat.

0615 - M. Houser gives H+S meeting. Personnel - P. Connolly (COM) M. Houser, D. Sheving, J. <sup>Holzer</sup> <sup>rc 9-14-11</sup> (Aecom) Jay and Matt <sup>(loss)</sup>, Steve Saugen (Gravity)

PPE - modified D + life vest

Weather - mostly sunny, 60's °F

0630 - We pull out of dock. Destination is location ~~32~~ <sup>rc 9-14-11</sup> 11B-0325

0743 - Boat is in place at 11B-0325.

Depth of water = 9.8 ft.

0747 - ~~Core #4~~ <sup>rc 9-14-11</sup> Begin advancing for core #1.

0914 - Finished collecting core 11B-0325. Recovery = 16.4 ft / 20 ft. Depth to <sub>D - 4 ft</sub> 9-14-11



Location Passaic RiverDate 9-14-11Project / Client RM 10.9AE Com oversight

red clay = about 6.5 to 7 ft below black overlying sediment. PC 9-14

0925 - First core is taken back to Facility via John boat. PC 9-14

0948 - Begin to drill the second, 4-foot long core at 11B-0325. PC 9-14

1020 - Recovery on 4 foot core is 4.6 ft (core liner is actually 5 ft long) but AECom cuts liner to 4 ft and caps it.

1035 - S. Saugen of Gravity Environmental sets up and begins decontaminating the grab sampler. Decon procedure includes an Alconox + DI water scrub, a DI water rinse, a Nitric rinse, DI rinse, methanol, DI rinse, Hexane, DI rinse. PC 9-14

1046 - Prior to collecting grab sample, the depth of water column = 11.9 ft.

The sampler is a pneumatically operated Power grab "clamshell" bucket. PC 9-14

1101 - First two grab sample attempts at 11B-0325 did not yield sufficient recovery.

They will add weights to the sampler in order to sink it deeper into sediment.

1126 - Recovery of grab sample at 11B-0325

Location Passaic RiverDate 9-14-11Project / Client RM 10.9AE Com oversight

is sufficient. AE Com begins collecting sample 11B-0325-6. Sample is processed ~~on boat~~. <sup>PC 9-14</sup> The VOCs portion of the sample is collected directly from the Powergrab bucket. Approximately 10 grains of sediment is spooned into the 3 VOA vials + a % moisture jar (2 oz).

They then collect ~~about~~ <sup>PC 9-14</sup> several more ounces (~20-30) into a bucket lined with clean plastic to be processed for other analyses at the Facility.

1142 - PC heads back to facility on the John boat. ~~The~~ <sup>PC 9-14</sup> AE Com plans to move to location 11B-0328 next to sample. 0329 PC 9-14

1230 - PC meets with Theresa of AE Com. Theresa will be free in about 30 minutes to discuss split sample logistics.

1300 - AE Com sample processors take lunch

1345 - PC observes AE Com process 0.5-1.5 ft interval of 11B-~~0328~~ <sup>PC 9-14</sup> 0329 PC 9-14

1426 - PC observes AE Com pack a cooler for shipment to Test America - Knoxville

1515 - PC offsite

Part 4 by 9-14-11



Location Passaic RiverDate 9-15-11Project / Client RM 10.9AE Com Oversight

0615 - P. Connelly onsite. AE Com and Gravity personnel are loading equipment onto truck at facility to take to boat.

Personnel - P. Connelly (COM) D. Sheving, M. Houser, J. Holzer (AE Com), S. Saugen (Gravity), Jay and Matt (<sup>OSF</sup>~~CTR~~) PC 9-15

TPE - modified level D + life vest PC 9-15

Weather - partly cloudy, 70's °F PC 9-15

0635 - M. Houser of AE Com gives daily H+5 briefing PC 9-15

0640 - Boat leaves dock to navigate to IIB-0314. PC 9-15

0645 - AE Com is decoring tube caps for the cores as well as core sleeve and vibracore bits. PC 9-15

0755 - Begin coring at IIB-0314. Depth of water column = 5.0 ft. 9-15-11

0800 - Cored 20 ft. Will let core ~~set~~ sit for 10 minutes to settle before bringing it to the surface. PC 9-15

0815 - pulled core IIB-0314. Will now move boat to deeper water which is necessary to cut core into shorter intervals for shipment back to processing facility. PC 9-15

P. Connelly 9-15-11

Location Passaic RiverDate 9-15-11Project / Client RM 10.9AE Com Oversight

0844 - AE Com + CTR are cutting core into 4 ft sections for transport to facility. Each core section is capped at both ends with a plastic core cap and then sealed with 2" pipe tape. The core cap is then labeled with a date/time and a sample name indicating the location and interval. The top and bottom of the core are marked. The core sections are kept upright and placed into an upright ice chest on deck until the John boat comes to pick them up. PC 9-15

0850 - Total recovery on first core at IIB-0314 = 18.6/20 ft. Depth to red clay/sand = about 10 ft bgs.

0916 - Begin coring for <sup>a 10 foot</sup> ~~second 20 ft~~ core at IIB-0314. A <sup>18 ft</sup> ~~second 20 ft~~ core is necessary at this location to fulfill sample volume requirements for Group A and Group B analyses.

Depth of water column = 6.9 ft.

1000 - Finished pulling 16 ft core and cutting down into 4 ft sections at

D. Connelly 9-15-11



Location Passaic River Date 9-15-11  
 Project / Client RM 10.9  
AE Com oversight

Location 11B-0314, Recovery = 15.8 ft.

1026 - Begin coring #3 (5 ft core) at 11B-0314.  
 Depth of water = 6.5 ft.

1050 - Finished collecting 5 ft core at 11B-0314.  
 Recovery = 5/5 ft. All black sediment.

1110 - Preparing to collect grab sample with  
 Hydraulic Powergrab at 11B-0314. Powergrab  
 has been decont. Depth of water = 7.5 ft.

1115 - Grab sample is brought to the surface.

It is a brownish gray silty sand. Slight  
 sheen, 0.0 ppm on PID. J. Holzer of AE Com

begins collecting VOC samples into VOA's.

They use a decont. <sup>PC 9-15</sup> aluminum spoon to  
 carefully spoon sediment from the surface of  
 the grab sample into 3 VOA vials. Each VOA  
 vial has been zeroed <sup>PC 9-15</sup> prior on an electronic  
 scale prior to filling. They place approximately  
 10 grams of sediment into each VOA, then  
 collect a 2 oz jar of sediment for moisture  
 content. 9-15-11  
PC

1200 - PC gets ride back to facility area on  
 John boat. Light rain begins.

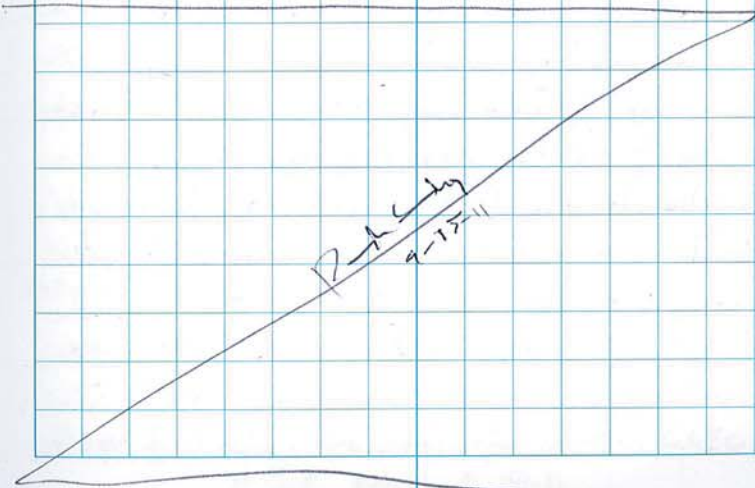
1245 - PC speaks to K. Van Naerssen of AE Com.  
 He says that they plan on using a 15 ft

Location Passaic River Date 9-15-11  
 Project / Client RM 10.9  
AE Com oversight

core barrel next week to collect  
 sediment cores rather than a 20 ft  
 1/4 red sand/clay is generally around  
 10-12 ft deep so the 20 ft core  
 is generating excessive waste. A shorter  
 core barrel will also <sup>PC 9-15</sup> help be able to  
 be pulled and cut down into 4 ft  
 sections in shallower water so boat  
 can stay anchored in place during  
 this task rather than moving to  
 deeper water. 9-15

1300 - PC goes to sample processing  
 area to observe. 9-15

1510 - PC offsite. 9-15





AE Com Oversight0610 - PC on site. PC 9-19

Personnel - P. Connelly (CDM), M. Houser,  
D. Sheving, J. Holzer (AE Com), J. Delorenzo,  
M. Traggione (OSI) PC 9-19

PPE - modified level D + life vests

Weather - clear skies, 50° F

Task - oversight on sampling at locations

11B-0320 and 11B-0326. Split sampler

0640 - Leave dock to go to 11B-0320

0725 - Begin <sup>coreing</sup> drilling at 11B-0320. Core barrel is 4" diameter, 15 feet long.

0740 - Pull core and begin cutting into 4 ft sections. Recovery = 11.25/14.5 ft.

0835 - AE Com will collect an additional 15 foot core for sufficient sample volume at this location. PC 9-19

0845 - John boat arrives to take first core back to processing facility, PC rides back with <sup>PC</sup> to facility to meet with Teresa Watson of AE Com to organize the split sampling. PC 9-19

1015 - PC gave Teresa 2 sets of bottlenecks to collect <sup>2</sup> split sampler from location 11B-0320. We will try to collect 2 splits  
Pch cm 9-19-11

AE Com Oversight

<sup>PC 9-19</sup>  
pet on Monday, 2 on Tuesday, and 2 on Wednesday from the first location of the day. VOC's will only be split on Wednesdays and one sample will be from the grab sample and one from the core. Samples will be stored in a cooler provided by CDM in a walk-in refrigerator which <sup>PC 9-19</sup> inside the facility. The walk-in will be padlocked each night for security.

1045 - PC speaker to K. VanNaerssen about the best way to obtain data about # of cores/location, # of sampler/location and depth to red silt layer. Also total # of sampler collected.

He says AE Com is working on a spreadsheet that will be populated each day with this data. It will be done in the next few days.

1100 - Lunch PC 9-19

1130 - PC begin putting together bottlenecks sets for split samples for this week and labeling them so they can be left for the sampling team each morning while

Pch cm 9-19-11



Location Passaic River Date 9-19-11Project / Client RM 10.9AE Com Oversight

PC is doing oversight on the boat.

1230 - PC finished with bottleware sets.

1300 - PC goes to sample processing area to observe, take photos (see photo log on page 20) and check split samples.

1305 - Split sample 11B-0320-C1-DS-C was collected at 0722 for ~~all~~ <sup>all</sup> ~~analyses~~ <sup>analyses</sup>.K. VanNaerssen informs PC that the boat crew has successfully collect necessary cores at 11B-0320 and has so far collected the first 15 ft. core at 11B-0326. The first core at 11B-0326 had recovery of 9.6 / 12 feet and was collected at 11:30 AM.1321 - ~~the second set of cores (cores) PC 9-19-11~~

The 2 cores to be collected at 11B-0326 are brought into the facility area, they are a 12 ft core and a 4 ft core, the boat team only has a grab sample remaining to collect.

1340 - Boat crew has collected grab sample at 11B-0326 and are returning to dock now.

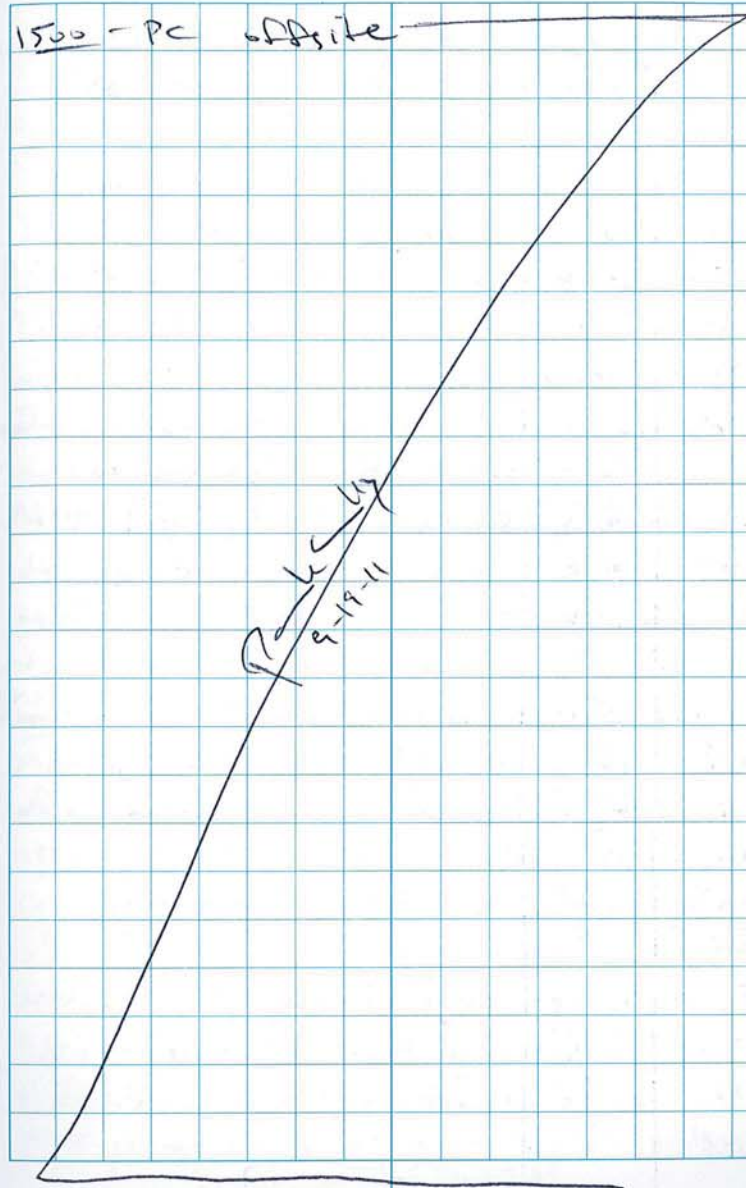
1345 - AE com breaks for lunch. PC 9-191450 - Split sample 11B-C1-BS-C collected at0722. Split 11B-C2-BS-C collected at 0830. PC 9-19PC 9-19-11Location Passaic River Date 9-19-11Project / Client RM 10.9AE Com Oversight



Photo Log

photo #	Date/Time	Activity Description
001	9-19-11 12:55	sample processing tent
002	9-19-11 12:56	Decom area
003	9-19-11 12:59	IDW storage area
004	9-20-11 07:50	Pulling up 1st core at 11B-0321
005	9-20-11 08:03	Coring 2nd core at 11B-0321
006	9-20-11 09:47	Cutting down 4th core at 11B-0321
007	9-20-11 09:50	" " " "
008	9-21-11 09:12	Decoring vibrocore cutting head on boat
009	9-21-11 09:43	Setting up Powergrab system
010	9-21-11 09:49	Sampling for VOC's from Powergrab
011	9-21-11 09:50	Sampling for VOC's from Powergrab
012	9-22-11 11:28	Removing soil from core for sampling
013	9-22-11 11:29	IDW drums inside processing tent
014	9-22-11 11:29	Core settling/dewatering station inside tent
015	9-22-11 12:01	Placing homogenized soil into jars
016	9-22-11 13:10	transferring cores from boat to truck
017	9-22-11 13:10	" " " " "
018	10-4-11 11:33	High Res core sampling
019	10-4-11 11:34	" " " "
020	10-4-11 11:35	Core photographing station
021	10-4-11 11:36	High Res sample jar station
022	10-4-11 11:53	Core data logging station (H <sub>2</sub> S, H <sub>2</sub> O <sub>2</sub> )

by 10-4-11

AE com oversight

0600 - P. Connelly onsite at facility. AE com is loading equipment onto truck to take to boat dock.

Personnel - P. Connelly (com), M. Houser, J. Holzer, D. Shewing (AE com), ~~J. Ford~~ Matt (CTR) <sup>PC</sup> Jay DeLorenzo + M. Trigueros <sup>PC</sup> <sub>OSF</sub>

PPE - modified level D + life vest

weather - overcast, 60's°F, light rain expected

Task - oversight on AE com collecting cores and samplers at locations 11B-0321 and 11B-03

Also collecting split sampler at 11B-0321 intervals B and C.

0645 - Leave dock on boat headed to location 11B-0321. 3:20

0735 - Begin coring first core at 11B-0321. First core will be 15 feet. Depth of water = 9 ft. PC 9:20

0755 - 1st core only gets about 4 ft of recovery out of 15 ft. It will be disposed of as IDW and another attempt will be made at 15 ft core.

0802 - Begin coring 2nd core attempt at 11B-0321. Depth of water = 8.9 ft.

0825 - Attempt at 2nd core yields only  
P. Connelly 9-20-11



Location Passaic River Date 9-20-11  
 Project / Client RM 10.9  
AE Com Oversight

5 feet of recovery out of 15 ft. They need at least 80% recovery. They will dispose of this core as IDW and make a 3rd attempt. They will shift the boat a few feet off the original position and log the new coordinates prior to 3rd core. pc 9-20

0843 - ~~Begin~~ <sup>pc 9-20</sup> Begin drilling 3rd core. Depth of water = 8.6 ft. pc 9-20

0900 - 3rd core has only 68% recovery. ~~They will save this core to use as the 4th sample intervals.~~ pc 9-20-11

0925 - Begin 4th core at 11B-0321. They have offset 25 ft. from original target.

0946 - 4th core is successful. Recovery = 13.8/14.4 ft. pc

1002 - Begin 5th core at 11B-0321. Depth of water = 8.6 ft. pc

1030 - 5th core successful. Recovery = 13.10/14 ft. pc

1054 - Begin drilling 6th core (4 ft.) at 11B-0321. Depth of water = 9.3 ft.

1100 - PC gets ride on John boat back to facility area and takes lunch.  
 P. L. City 9-20-11

Location Passaic River Date 9-20-11  
 Project / Client RM 10.9  
AE Com Oversight

1130 - PC receives phone call from Kris VanNaerison of AE Com. He says that the breaker tripped on the walk-in cooler last night. The temperature got up to 8°C. It is supposed to stay at 6°C. pc

1200 - PC begins observation of the ~~4th~~ core at 11B-0321 <sup>pc 9-20</sup> processing of the samples of the 4th core from 11B-0321. pc 9-20

1330 - 6th core (5 ft.) from 11B-321 and grab sample + VOA's are delivered to processing facility.

1400 - sample processing crew takes lunch.

1420 - Boat crew completed coring and ~~sampled~~ grab sample at 11B-0327. They collected a 5 ft core, a 15 ft core, and a grab sample. pc 9-20

1430 - PC spoke to K.V. of AE Com about how they plan to resolve the circuit breaker trip problem on <sup>refrigerator</sup> cooler. He says they have an electrician coming to repair the issue on Friday. For now, I will put ~~apt. to~~ <sup>pc 9-20</sup> a bag of ice in cooler with split

P. L. City 9-20-11



## AE com oversight

Sampler end afternoon before leaving  
and AE com will put another bag in  
before leaving in the evening. They  
usually leave between 7:30 pm and 10:00 pm.

1500 - PC offsite.

Pch wh  
9-20-11

## AE com oversight

0600 - PC onsite.

Personnel - P. Connelly (EDM), M. Houser,  
D. Sheving, J. Holzer, K. Van Naerssen

PPE - modified level D

Weather - overcast, 60°F

Task - collect cores + grab samples  
at locations 11B-0324 and 11B-0328.

CDM will get split samples from ~~11B-0324~~<sup>11B-0328</sup>  
11B-0324.

0605 - Circuit breaker has tripped  
overnight on sample refrigerator.  
Temp inside fridge = 9°C. AECOM  
has samples in fridge from yesterday.  
CDM's split samples are also in fridge  
but are in cooler packed with ice.

Temp inside cooler = 6°C.

0620 - AE Com is ~~load~~<sup>repack</sup> loading  
equipment onto truck to take to the  
dock. D. Sheving is calibrating  
MultiRAE.

0659 - Boat leaves dock to navigate to  
location 11B-0324.

0750 - Begin coring 1<sup>st</sup> core at 11B-024.

Depth of water = 9.7 ft.

Pch wh 9-21-11



Location Passaic River Date 9-21-11Project / Client RM 10.9AE Com Oversight

0825 - 1<sup>st</sup> core at 11B-0324 successful. Recovery = 13.8/14.5 ft. Depth to red silt/sand = about 7 ft. PC 9-21

0835 - Begin coring for 2<sup>nd</sup> core at 11B-0324. Depth of water = 9.6 ft. PC 9-21

0859 - 2<sup>nd</sup> core at 11B-0324 successful. Recovery = 12.9/13.0 ft. Depth to red layer approximately 7 ft. PC 9-21

0916 - Begin coring for 3<sup>rd</sup> core at 11B-0324. Depth of water = 9.6 ft. PC 9-21-11

0935 - 3<sup>rd</sup> core at 11B-0324 successful. Recovery = 3.9/4.5 ft. No red layer present.

0944 - Collect grab sample. Successful on 1<sup>st</sup> attempt. Collect split VOC samples. Sample ID = 11B-0324-G1-AS-C

1010 - PC gets ride on John boat back to Facility area. PC 9-21

1030 - PC speaks to Paula Wendell of AE Com. She says that they plan on using the samples that were collected yesterday from 11B-0327 which were in the cooler overnight despite the cooler reaching a temp of 9°C due to breaker trip. She says they have notified the lab of the issue. PC 9-21

P. K. City 9-21-11

Location Passaic River Date 9-21-11Project / Client RM 10.9AE Com Oversight

1035 - PC observes processing of cores from location 11B-0324 for analytical analysis. PC 9-21

1200 - G. Molnar + M. Kowalczyk of CDM on site to pick up the split samples from ~~Monday~~ <sup>PC 9-21</sup> Tuesday and Wednesday of this week in order to pack and ship them to the labs. The <sup>split</sup> sampler from Monday will be discarded in AE Com's IDW waste stream per S. Budney of CDM due to refrigerator breakdown on Monday night. The sampler temp. exceeded 6°C that night. PC 9-21

1405 - G. Molnar and Marianna off site with split sampler. They will take them in an iced cooler to the CDM warehouse in Edison, NJ to be packed and shipped tonight.

Endnote - Boat crew returned to facility at 13:30. They successfully collected 2 cores and a grab at 11B-0328. The first and 3<sup>rd</sup> core attempts were successful and the 2<sup>nd</sup> grab attempt was successful.

1500 - PC off site PC 9-21

P. K. City 9-21-11



Location Passaic River Date 9-22-11Project / Client RM 10.9AE Com Oversight0600 - PC on site - PC 9-22

Personnel - P. Connolly (COM) M. Houser,  
J. Holzer, D. Scheuing (AE Com), J. Delorenzo,  
M. Truggione (OSI). PC 9-22

PPE - modified level D + lifeline

Weather - overcast, 60's °F, rain and  
possible T-storms expected. PC 9-22

Task - oversight on AE Com performing  
sediment coring and sampling at locations  
11B-306 and 11B-350. IF water is too  
shallow at 11B-306, we will do 11B-307.

0615 - AE Com is loading equipment onto  
truck to take to boat dock. D. Scheuing  
calibrates MultiRAE. PC 9-22

0804 - Begin 1st core at 11B-306<sup>0350</sup>. Depth  
of water = 8.1 ft. PC 9-22

0835 - Core #1 successful. Recovery = 8.6  
/ 9.8 ft Red layer at about 0350

0850 - Begin core #2 at 11B-306. Depth  
of water = 8.6 ft. PC 9-22

0857 - While waiting 10 minutes for  
the core to settle before pulling it to  
the surface, an outflow of water  
opens up on the eastern bank about  
Publicly 9-22-11

Location Passaic River Date 9-22-11Project / Client RM 10.9AE Com Oversight

50 ft from the barge. Water has  
a strong odor and is clearly stirring  
up river sediment. Odor is slightly  
chemical and sulfurous. PC 9-22

0900 - Outflow shuts off. Estimated  
release of between 1,000 - 2,000 gallons  
of water. 0350 PC 9-22

0925 - 2nd core at 11B-306 successful.

Recovery = 8.6 / 9.9 ft. Depth to  
red layer = about 6.75 ft. PC 9-22

0940 - Begin 3rd core at 11B-306 0350 PC 9-22

1000 - 3rd core at 11B-306 successful.  
Recovery = 4.7 / 4.8 ft. PC 9-22

1015 - PC returns to facility area on  
son boat. PC watches AE Com transfer  
cores from boat to pick up truck, then  
to facility. Cores are kept upright in  
specially built, ice filled "coolers"  
through the entire process. PC 9-22

1115 - PC enters processing tent to observe  
processing inside tent. They are processing  
cores from 11B-306. PC 9-22

1220 - Exit tent. Sample processing crew  
takes lunch. Awaiting cores from 2nd spot.

P.L. why 9-22-11



Location Passaic River Date 9-22-11Project / Client RM 10.9AE Com Oversightlocation 11B-0307 PC 9-22

<sup>PC 9-22</sup> 0645 - the boat crew has collected 2 cores at 11B-0307. They are currently collecting grab sample.

1500 - PC offsite. Observed weekly decom of sample core liners. No split samples were collected today.

*Paul Kelly*  
9-22-11

Location Passaic River Date 9-26-11Project / Client RM 10.9AE Com Oversight

0600 - PC on site. <sup>PC 9-26</sup> ~~Leaves~~ Places the split sample bottle ware for today near processing tent. Targeted split sample intervals are 11B-0319 interval B and C.

Personnel - P. Connolly (com), M. Hansen, ~~Kir~~ Paul Kerath, J. Holzer, K. Vennersson (AE com), J. DeLorenzo, M. Traggione (OSI)

PPE - modified level D + life vests

weather - overcast, 60's °F, rain possible

Task - PC will be doing oversight on core collection and sample processing in the facility at locations 11B-0319 and 11B-0305. A split sample is planned at 11B-0319 intervals B and C.

0650 - Mobilize on boat to 11B-0319

0800 - Begin coring for 1st core at 11B-0319. Water depth = 4.8 ft.

0830 - Core #1 at 11B-0319 successful.

Recovery = 11.2 / 12 ft. Reddish layer approximately 11.5 ft. PC 9-26

0840 - Begin coring for 2nd core at 11B-0319.

Water depth = 4.9 ft. PC 9-26

0910 - Core #2 at 11B-0319 successful.

Recovery = 12 / 13.4 ft. PC 9-26

*Paul Kelly* 9-26-11



AE Com Oversight

0930 - Begin 3<sup>rd</sup> core at 11B-0319. Depth of water = 4.4 ft. PC 9-26

0950 - 3<sup>rd</sup> core successful. Recovery = 5/5 ft. PC 9-26

1000 - Begin powergrab sample.

1002 - 1<sup>st</sup> attempt unsuccessful. Too little recovery. Successful on 5<sup>th</sup> attempt. PC 9-26

1005 - PC heads back to facility on Jon boat. EPA and Hydroqual onsite. EPA rep is Eugenia Narunjo and Hydroqual rep. is Ed Garland. They will go out on the Jon boat and observe core collection at location 11B-0305. PC 9-26

Projected coring location schedule for the rest of the week = Tues: 11B-0335 and 11B-0337, Wed: 11B-0334, 11B-0318, Thurs: 11B-0340 and 11B-0311.

1030 - PC observing processing of cores from 11B-0319. PC 9-26

1230 - EPA and Hydroqual offsite.

1400 - Boat crew back at facility. Successfully collected cores + grab sample at 11B-0305. Lab crew breaks for lunch.

1430 - PC offsite PC 9-26  
P-L by 9-26-11

AE Com Oversight

0600 - PC on site. PC 9-27

Personnel - P. Connelly (COM), M. Houser, J. Holzer, P. Kerath (AE Com), S. Saugen (Gravity), J. DeBrenzo, M. Traggionese (OST)

PPE - modified level D + life vests

Weather - overcast, 70<sup>50</sup> F, rain possible.

Task - Oversight on AE Com collecting and sampling <sup>PC 9-27</sup> ~~cores~~ sediment cores at locations 11B-0335 and 11B-0337.

Split samples will be collected at 11B-0335 intervals C and E. PC 9-27

0645 - Depart on boat from dock.

0744 - Begin coring for 1<sup>st</sup> core at 11B-0335. Depth of water = 6.3 ft.

0746 - Hit Refusal at 4.6 ft.

0800 - Core #1 at 11B-0335 is not successful. Recovery is only a few feet. It is disposed of as TDW. PC 9-27

0817 - moved a <sup>PC 9-27</sup> ~~few~~ few feet off original location and begin drilling core #2 at 11B-0335. PC 9-27

0830 - 2<sup>nd</sup> core successful at 11B-0335. Recovery = 15/14.5 ft. Native material at approximately 8.65 ft. PC 9-27

P-L by 9-27-11



Location Passaic River Date 9-27-11Project / Client RM 10.9AE Com oversight0900 - Begin 3<sup>rd</sup> core at 11B-0335.0940 - 3<sup>rd</sup> core successful. Recovery = 7.6/9.5 ft. pc 9-270955 - Begin 4<sup>th</sup> core at 11B-0335.1015 - 4<sup>th</sup> core successful. Recovery = 4.8/4.5 ft. pc 9-271027 - 1<sup>st</sup> grab sample at 11B-0335 is successful. No PID hits. light sheen on surface. pc 9-271100 - PC returns to facility on Tom boat. Goes to observe sample processing in facility on <sup>9-27</sup> ~~9-27~~ cores from 11B-0335.1320 - Boat crew has successfully collected cores and a grab sample at 11B-0337.They will now return to location 11B-0341 to get a grab sample only. A grab sample was never successfully grabbed at this location b/c AE Com was not yet using the powergrab system.

Note - As of 9-22-11, AE Com has collected 76 samples of group A analytes.

1505 - PC offsite. pc 9-28~~P. Connelly~~  
9-28-11Location Passaic River Date 9-28-11Project / Client RM 10.9AE Com Oversight0600 - P. Connelly onsite pc 9-28  
Personnel - P. Connelly (com) M. Houser, J. Holzer, P. Kerath (AE Com) S. Saugen, (gravity), J. DeLorenzo, M. Tragnette (OSI)

PPE - mod. Aed level D + lifeline

Weather - wet, overcast, 60's F, light rain

Task - oversight on AE Com collecting cores/grab samples of river sediment and processing samples for lab analysis.

Today's target locations are 11B-0311 and 11B-0318. Split sampler will be collected at 11B-0311 intervals A and D. Interval A will be an ms/mso and interval D a duplicate.

0730 - Leave dock on boat to go to

11B-0311 pc 9-28

0817 - Begin coring first core at 11B-0311. Water depth = 20.2 ft.

0835 - 1<sup>st</sup> core at 11B-0311 successful.Recovery = 11.6/11.9 ft. pc 9-280905 - Begin coring 2<sup>nd</sup> core at 11B-0311. Water depth = 20.2 ft.0925 - 2<sup>nd</sup> core at 11B-0311 successful. Recovery = 8.3/8.5 ft. pc 9-28

P. Connelly 9-28-11



Location Passaic River Date 9-28-11  
 Project / Client RM 10.9  
AE Com Oversight

0950 - Begin 3rd core at 11B-0311. Water depth = 20.2 ft. PC 9-28

1000 - 3rd core unsuccessful. Recovery = 0.0 / 5.0 PC 9-28

1012 - Begin 4th core at 11B-0311. Depth of water = 20.2 ft. PC 9-28

1030 - 4th core successful. Recovery = 5.1 / 5 ft.

1042 - Begin 5th core at 11B-0311. Depth of water = 20.2 ft. PC 9-28

1055 - 5th core unsuccessful. Recovery 2.5 / 5 ft.

1107 - Begin 6th core at 11B-0311. Depth of water = 19.7 ft. PC 9-28

1125 - Core #6 successful at 11B-0311. Recovery = 5 / 5 ft. PC 9-28

1130 - 1st grab sample attempt fails.

1136 - 2nd grab sample successful. PID = 17.0 ppm. Gray sand. A split sample for VOCs is being collected on the boat

along with AE Com's sample. It is an MS/MSD. PC 9-28

Note - Red sand in 11B-0311 at 4.2 ft.

1215 - PC returns to facility area on boat. Takes lunch. PC 9-28

1245 - PC begins observation of core   
 Puck only 9-28-11

Location Passaic River Date 9-28-11  
 Project / Client RM 10.9  
AE Com Oversight

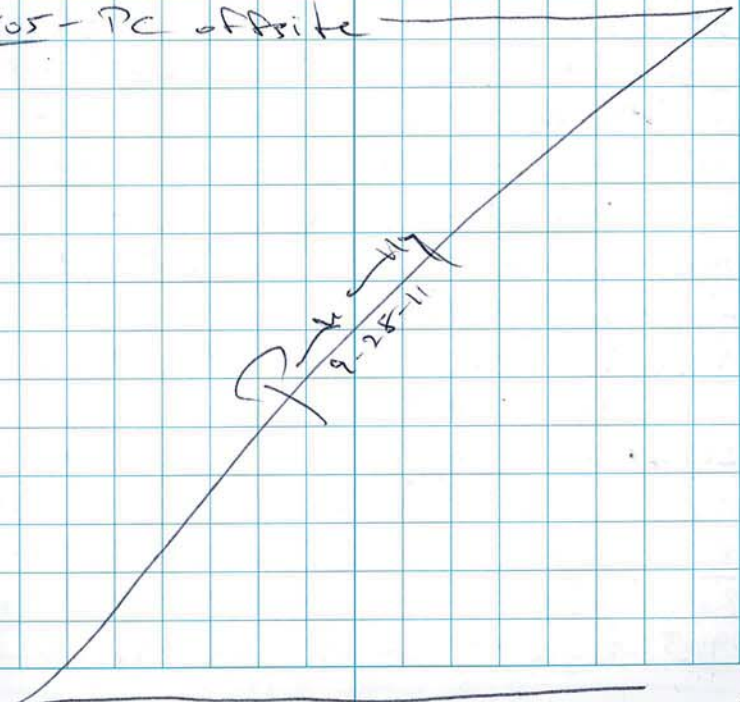
processing of 11B-0311. PC 9-28

1345 - Marianna Kowalczyk of CDM on site to pick up this week's split samples to prep and ship to labs.

1430 - M. Kowalczyk offsite with split samples for the week. PC 9-28

1500 - Boat crew is currently collecting cores and grab sample at 11B-0317 rather than the scheduled 11B-0318 due to tide restrictions. PC 9-28

1505 - PC offsite





Location Passaic River Date 9-29-11Project / Client RM 10.9AE Com Oversight

0500 - PC onsite. <sup>PC 9-29</sup> ~~Early~~ Early Start  
 today due to tides. PC 9-29

Personnel - P. Connolly (com) M. Houser,  
 J. Helzer, P. Kerath (AE com), S. Sanger (Gravity),  
 J. Delorenzo, M. Tragnone (OSI)

PPE - modified level D + life vest

Weather - overcast, 70°F, light rain

Task - oversight on AE Com's sediment  
 core and grab sample collection process and  
 sampling on 11B-0339 and 11B-0340.

0555 - Leave dock on boat to go to 11B-0339

0652 - Begin coring 1<sup>st</sup> core at 11B-0339.

Water depth = 5.2 ft. PC 9-29

0715 - 1<sup>st</sup> core at 11B-0339 unsuccessful.

Insufficient recovery PC 9-29

0740 - Begin coring 2<sup>nd</sup> core at 11B-0339.

Water depth = 6.2 ft. PC 9-29

0805 - 2<sup>nd</sup> core successful, Recovery =

12.1/13 ft. Reddish Brown layer

0818 - Begin coring 3<sup>rd</sup> core at 11B-0339.

Water depth = 7.9 ft. PC 9-29

0845 - 3<sup>rd</sup> core successful at 11B-0339.

Recovery = 13.2/14 ft. PC 9-29

0903 - Begin 4<sup>th</sup> core at 11B-0339. Water

PC 9-29-11

Location Passaic River Date 9-29-11Project / Client RM 10.9AE Com Oversight

Depth = 9.5 ft. PC 9-29

0918 - 4<sup>th</sup> core at 11B-0339 successful.

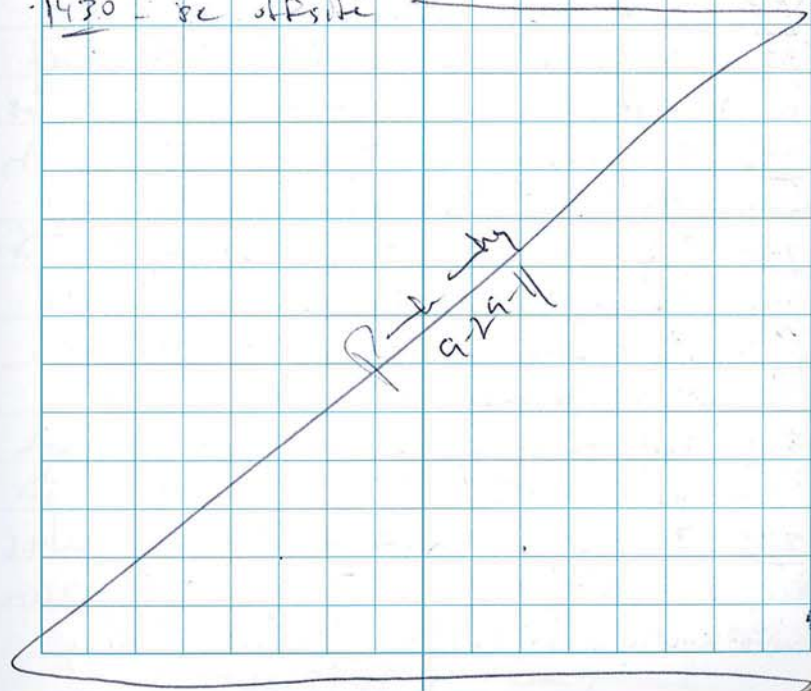
Recovery = 4.0/4.3 ft. PC 9-29

0941 - On 2<sup>nd</sup> attempt, boat crew gets  
 successful grab sample. PC 9-29

1000 - PC returns to facility area on jon  
 boat to observe core processing PC 9-29

1230 - Boat crew has returned to facility  
 after successfully collecting 2 cores  
 and a grab sample at 11B-0340.

1430 - PC offsite





Location Passaic RiverDate 10-3-11Project / Client RM 10.9AE Com oversight

0600 - PC on site at facility ——— <sup>PC</sup><sub>10-3</sub>  
 Personnel - P. Connelly (com), M. Houser, J. Holzer,  
 S. Howe (AE com), J. DeLorenzo, M. Traggionese (OSI)

PPE - modified level D, life vests

Weather - clear skies, 50's°F, rain possible later

Task - oversight on AE Com collecting cores  
 at 11B-0347 and 11B-0344. ODM will  
 collect split samples at 11B-0347 intervals  
 A+D. ——— <sup>PC</sup><sub>10-3</sub>

0645 - Leave dock on boat to go to 11B-0347

0730 - Begin 1<sup>st</sup> core at 11B-0347 Water  
 depth = 11.6 ft. ——— <sup>PC</sup><sub>10-3</sub>

0732 - Hit refusal at 3 ft bgs. Pull out,  
 clean out barrel and move a few feet.

0744 - Begin 2<sup>nd</sup> core at 11B-0347. ——— <sup>PC</sup><sub>10-3</sub>

0746 - Hit refusal at 3 feet. Pull core and  
 use it as the "short" 4 ft core for  
 the lab. Recovery = 5/5 ft.

0827 - Begin 3<sup>rd</sup> core at 11B-0347. Water depth  
 = 11.5 ft. ——— <sup>PC</sup><sub>10-3</sub>

0830 - Refusal at <sup>4.6</sup><sub>1.7</sub> ft. Recovery = 4.2/4.6  
 keep core for processing. The last 2 cores were  
 into native material so samples will only  
 be processed to top of native material.  
 PC 10-3-11

Location Passaic RiverDate 10-3-11Project / Client RM 10.9AE Com oversight

be processed to top of native material.  
 The native material is likely so shallow  
 here b/c we are in the center of  
 the channel. It is at about 4.5 ft.

0911 - Begin 4<sup>th</sup> core at 11B-0347.  
 This is using the 5 ft barrel.

0925 - 4<sup>th</sup> core = 4<sup>th</sup> 3.5/4.0 ——— <sup>PC</sup><sub>10-3</sub>

0939 - Successfully collect grab sample  
 #1. ——— <sup>PC</sup><sub>10-3-11</sub>

1020 - Begin 1<sup>st</sup> core at location  
11B-0344. Water depth = 6.1 ft.

1050 - 1<sup>st</sup> core successful at 11B-0344.  
 Recovery = 14.9/14.5 ft. ——— <sup>PC</sup><sub>10-3</sub>

1105 - PC returns on job boat to facility  
 to observe sample processing ——— <sup>PC</sup><sub>10-3</sub>

1340 - M. Kowalczyk on site to pick up  
 split samples from today and pack/ship  
 them to lab. ——— <sup>PC</sup><sub>10-3</sub>

1350 - M. K. affette. Taking samples in iced  
 cooler back to warehouse to pack and  
 ship them ——— <sup>PC</sup><sub>10-3</sub>

1500 - PC offsite  
 PC 10-3-11



0600 - PC on site at facility area.

Personnel - P. Connelly (COM) M. Hovuser,  
H. Kokinelis, J. Holzer (AE Com) J. Dalorenzo,  
M. Fraggione (OSI) PC  
10-4

PPE - modified level 2 + 11/11/11

Weather - cloudy, 60's F PC  
10-4

Task - Oversight of AE Com's collection of  
high resolution sediment cores at locations  
11B-0310, 11B-0346, and 11B-0322. PC  
10-4

0650 - Leave from dock on boat PC  
10-4

0740 - Begin 1st core at 11B-0310-HR Water  
depth = 6 ft. PC  
10-4

This core will be designated 11B-0310-HR  
for high resolution.

0815 - 1st core 11B-0310-HR successful.

Recovery = 14/14 ft. Native material  
at 11.67 ft. PC  
10-4

0825 - Begin 2nd core at 11B-0310-HR.

0840 - 2nd core successful at 11B-0310-HR.

Recovery = 4.1/4.2 ft. PC  
10-4

0915 - Begin 1st core at 11B-0346-HR

0935 - 1st core at 11B-0346 successful - Recovery  
= 6.7/6.5 ft. Refusal at 6.5 ft. PC  
10-4

1000 - Boat crew settling up at 11B-0342 to  
P-4 city 10-4-11

collect a high resolution <sup>10-4</sup> ~~cores~~ core.

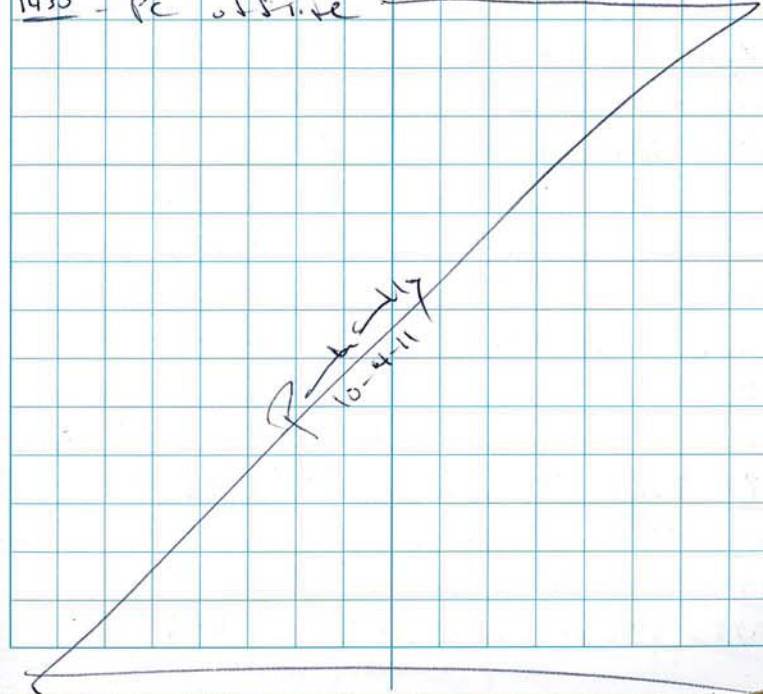
1020 - PC heads back to facility area on  
job boat. Will take lunch PC  
10-4

1100 - PC enters core processing tent  
to observe high resolution core processing.

~~Cores are~~ <sup>PC 10-4</sup> For high res sampling, the  
core <sup>PC 10-4</sup> and soil is collected from 3 inch  
intervals at each core. Each interval

is homogenized and placed into (2) 8oz  
sample jars for shipment to the lab.

1430 - PC off site





Location Passaic River Date 10-5-11  
 Project / Client RM 10.9  
AE com oversight

0600 - PC onsite at facility area — <sup>PC</sup><sub>10-5</sub>  
Personnel - P. Connelly (com) M. Havier,  
 J. Halzer, H. Kokindis (AE com), J. Delorenzo,  
 M. Tragginese (OSI) — <sup>PC</sup><sub>10-5</sub>

PPE - modified level D & lifevests — <sup>PC</sup><sub>10-5</sub>

Weather - clear sky, 60's°F / 70's°F — <sup>PC</sup><sub>10-5</sub>

Task - oversight of AE Com's sediment core collection and processing (sampling). Target locations for today are 11B-0349 and 11B-0322. At 11B-0349, the intent is to collect cores <sup>for</sup> and a grab sample for regular sample analysis plus a core for high resolution analysis. At location 11B-0322 the intent is to get a core for high res. analysis only. — <sup>PC</sup><sub>10-5</sub>

0655 - Leave from dock on boat — <sup>PC</sup><sub>10-5</sub>

0749 - Begin 1<sup>st</sup> core at 11B-0322. Water depth = 6.1 ft — <sup>PC</sup><sub>10-5</sub>

0810 - 1<sup>st</sup> core unsuccessful. Core went too deep and pushed beyond the surface sediment.

0830 - Begin 2<sup>nd</sup> core at 11B-0322 — <sup>PC</sup><sub>10-5</sub>

0850 - 2<sup>nd</sup> core successful. Recovery = 14/13.2 ft.

0905 - Begin 3<sup>rd</sup> core at 11B-0322.

0925 - 3<sup>rd</sup> core successful. Rec = 12.6/13 ft

P-h - 11/10-5-11

Location Passaic River Date 10-5-11  
 Project / Client RM 10.9  
AE Com oversight

1000 - Begin 4<sup>th</sup> core at 11B-0322.

1020 - 4<sup>th</sup> core successful. Rec. = 12.4/13 ft

1040 - 1<sup>st</sup> grab sample at 11B-0322 successful. — <sup>PC</sup><sub>10-5-11</sub>

1100 - PC leaves on jet boat to return to facility area — <sup>PC</sup><sub>10-5-11</sub>

1130 - PC begins observation of HTPC 10-5 processing of 11B-0322 cores — <sup>PC</sup><sub>10-5</sub>

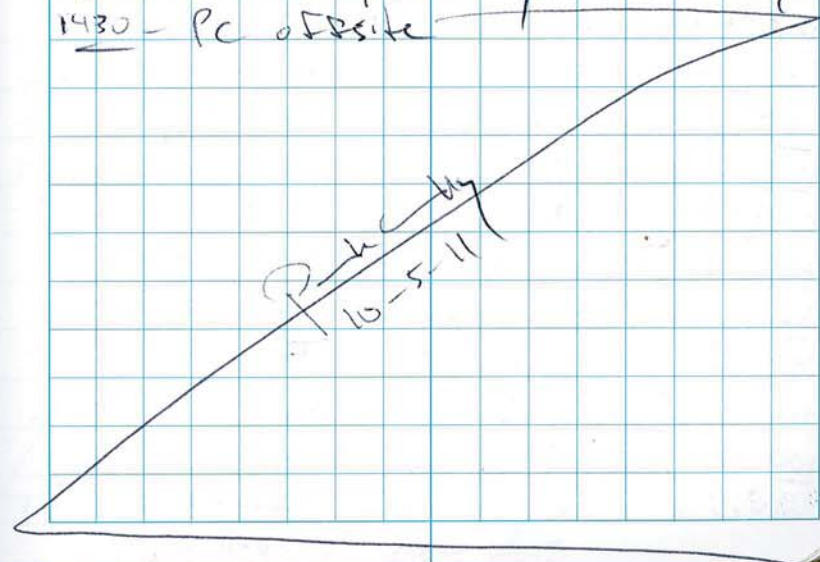
1330 - Boat crew returns to facility area. They've collected 1 high res core at

11B-0349. This completes the (6)

high resolution sampling locations.

4 were collected yesterday and 2 today.

1430 - PC offsite





AE Com Oversight

0600 - P. Connelly onsite at facility  
 Personnel - P. Connelly (CDM), M. Hauser,  
 J. Holzer, H. Kokinelis (AE Com), S. Surgen (Gravity),  
 J. DeLorenzo, M. Traggionese (OSI) PC 10-6

PPE - modified level D, life vests

Weather - sunny, 70°F

Task - oversight on AE Com collecting and  
 processing sediment cores on RM 10.9. The  
 target locations for today are 11B-0318  
 and 11B-0345. No split samples will be  
 collected today. PC 10-6

0754 - Begin 1st core at 11B-0318. Water depth  
 = ~~5.0 ft~~ 5.9 ft PC 10-6

0830 - Core #1 successful at 11B-0318

Recovery = 12.9 / 13 ft PC 10-6

0835 - Begin core #2 at 11B-0318 PC 12-6

0855 - Core #2 successful. Recovery = 14.5  
 / 15.0 ft. Reductive material at 8.5 ft.

0906 - Grab #1 successful at 11B-0318.

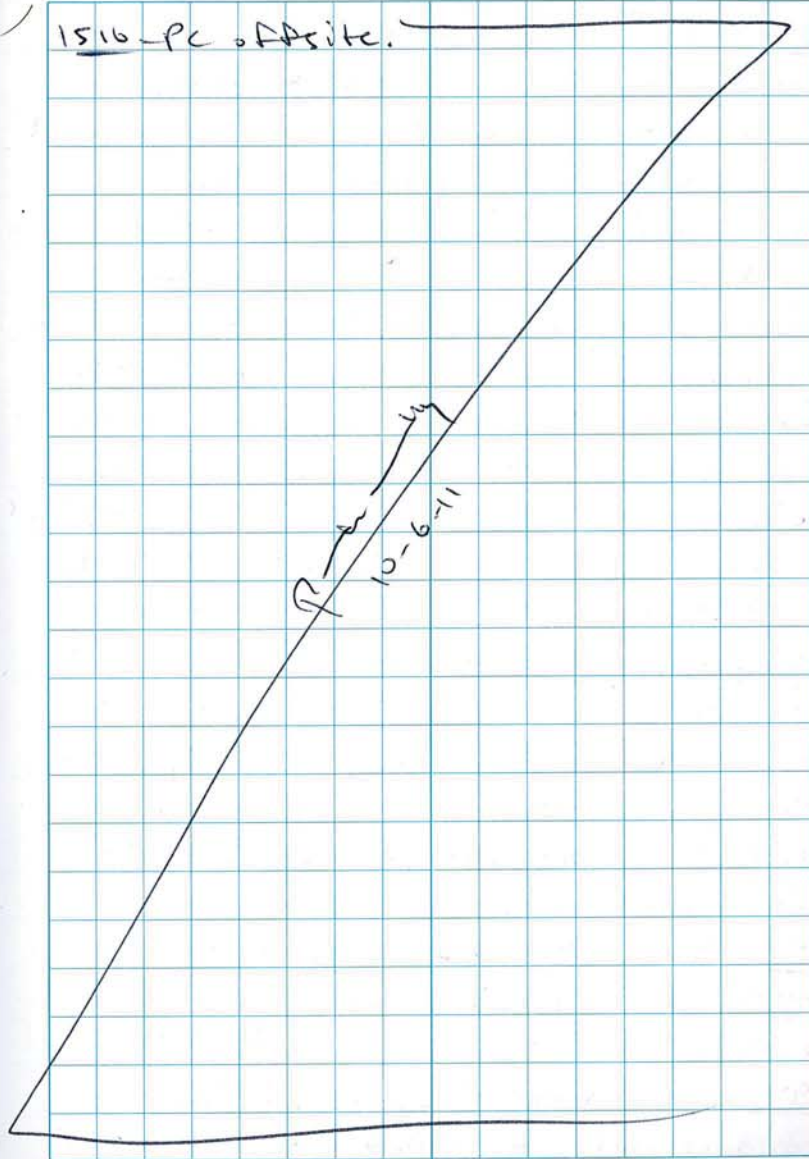
0920 - Decon grab sampler PC 10-6

0955 - Begin core #1 at 11B-0345. PC  
 leaves on jon boat to return to facility.

1100 - PC enters sample processing area to  
 observe core processing PC 10-6

P. Connelly 10-6-11

1516 - PC onsite.





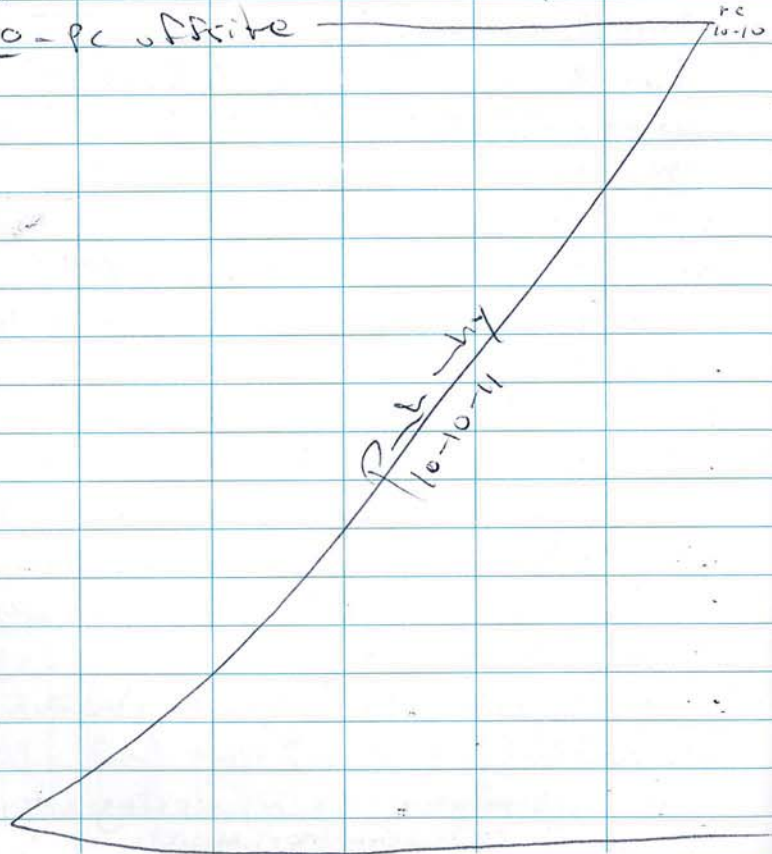
Location Passaic River Date 10-10-11Project / Client RM 10.9AE Com Oversight0600 - P. Connelly onsite at Facility area.Personnel - P. Connelly (com), M. Houser,  
J. Holzer, S. Howe (AE Com), M. Duffield  
(Gravity), J. DeLorenzo (OSE)PPE - modified level D PC 10-10-11Weather - sunny, 75°F PC 10-10Task - oversight and ~~split samples~~ <sup>PC 10-10</sup> on AE Com  
collecting cores/grab samples at 11B-0351  
and 11B-0304. Split samples will be  
collected at 11B-0304 intervals B and  
C. PC 10-100645 - leave dock on barge PC 10-100745 - Begin 1st core at 11B-0304 PC 10-10Water depth = 4.6 ft PC 10-100815 - 1st core at 11B-0304 successful.Recovery = 12.3/13 ft PC 10-100825 - Begin 2nd core at 11B-03040845 - 2nd core successful at 11B-0304.Recovery =0915 - Begin 3rd core at 11B-0304.0930 - 3rd core successful at 11B-0304. Recovery= 3.5/4 ft. PC 10-100943 - Grab sample #1 at 11B-0304is successful. PID = 0.0 ppmPth why 10-10-11Location Passaic River Date 10-10-11Project / Client RM 10.9AE Com Oversight1005 - Begin decombing grab sampler and  
mobilizing to location 11B-03511047 - We are set up and anchored  
at location 11B-0351. A large  
outfall approximately 20 feet east  
of us opens up and begins letting  
water flow out. It has a strong  
odor (chemically?) PC 10-101050 - Begin 1st core at 11B-0351.Water depth = PC 10-101051 - Out flow on east bank shutsoff. PC 10-101120 - 1st core unsuccessful at 11B-0351.Recovery = 5.2/12 ft. Core material  
is disposed of as IOW.1135 - Begin 2nd core at 11B-0351Beckwith - Red native material at 10.8  
ft at core #1 11B-0304.1150 - PC heads back to Facility area  
on Jon boat to eat lunch and observe  
core processing.1230 - PC enters lab area to observe  
processing of 11B-0304.1305 - ~~Lab prep~~ <sup>PC 10-10</sup> core processing crew  
Pth why 10-10-11



Location Passaic River Date 10-10-11  
 Project / Client RM 10.9  
AE com oversight

taker lunch. PC  
10-10  
 1355 - Boat crew collected 2 cores in  
 4 attempts at 11B-0351. The successful  
 cores were the 3<sup>rd</sup> and 4<sup>th</sup> attempts,  
 they were unable to collect a grab sample  
 after 6 tries due to rocky river  
 bed. PC  
10-10

1500 - PC offsite PC  
10-10



Location Passaic River Date 10-11-11  
 Project / Client RM 10.9  
AE com Oversight

0600 - P. Connelly on site at Facility  
Personnel - P. Connelly (com), M. Houser,  
 J. Hulzer, S. Hone (AE com), M. P. Field  
 (com. ty), J. Delucenzo, M. Toggiani  
PDE - modified level D + 11 divers

Weather - overcast, 70's°F

Task - oversight on AE com doing <sup>10-11</sup>PC  
 collecting sediment cores and processing  
 them for lab analysis. Split sampler  
 will be collected. Target cores are  
 11B-0308 and 11B-0343

0650 - Shave off from dock 10-11  
PC

0755 - Begin 1<sup>st</sup> core at 11B-0308

Water depth = 4.3 ft. 10-11  
PC

0815 - 1<sup>st</sup> core unsuccessful at 11B-0308.

Recovery only 78% (80% is minimum).

0831 - Begin 2<sup>nd</sup> core at 11B-0308.

Water depth = 5.1 ft. 10-11  
PC

0900 - 2<sup>nd</sup> core at 11B-0308 successful

Recovery = 14.1 / 14.5 ft. 10-11  
PC

0914 - Begin 3<sup>rd</sup> core at 11B-0308

0940 - 3<sup>rd</sup> core successful at 11B-0308.

Recovery = 12.9 / 14.5 ft. 10-11  
PC

1005 - Begin 4<sup>th</sup> core at 11B-0308. Depth

Pak - M 10-11-11



AE Com Oversight

5F water = 4.4 ft. PC  
10-11

1020 - 4th core successful. Recovery = 4.4 / 4.5 ft. PC  
10-11

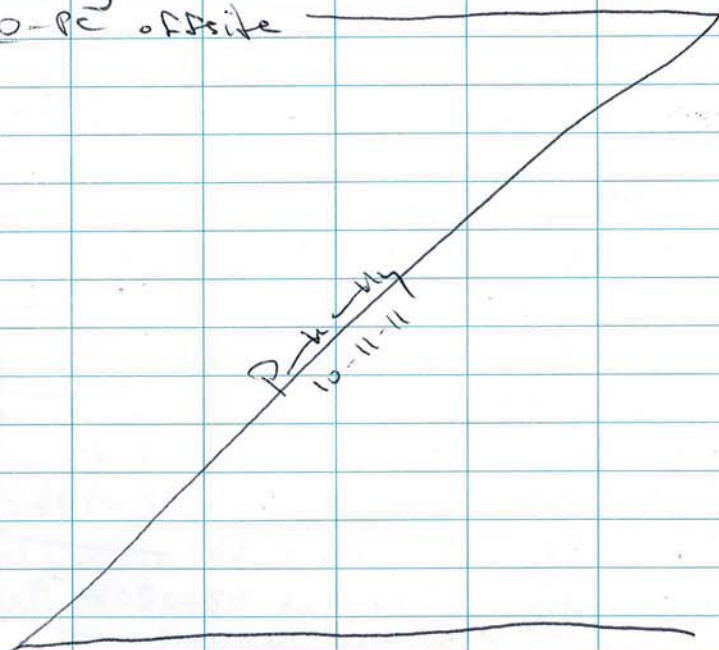
1032 - 1st grab sample attempt unsuccessful.

1035 - PC returns to facility area on job boat to observe core processing PC  
10-11

1115 - PC begins observing processing of cores from 11B-0308 PC  
10-11

1400 - Lab crew takes lunch. Boat crew has collected cores from 11B-0343 and is returning to dock. PC  
10-11

1500 - PC offsite

AE Com oversight

0600 - PC onsite at field facility  
Personnel - P. Connelly (com), Mr. Harter,  
S. Howie, J. Holzer (AE com), M. D'Amico  
(Gravity), J. DeLuca

PPE - modified level D + life vests

Weather - overcast, rain likely, 60°F

Task - oversight on AE Com collecting sediment cores and grab samples at locations 11B-0331 and 11B-0332.

CDM will be getting split sample (including VCR) at 11B-0331 intervals A (0-0.5 ft) and D (2.5-3.5 ft)

0655 - Depart from dock on boat

0815 - Begin 1st core at 11B-0301 PC  
10-12

Water depth = 4.2 ft. 0331

0835 - 1st core at 11B-0331 successful.  
Recovery = 9.4 / 11.7

Depth to native material = 8.7 ft

0903 - Begin 2nd core at 11B-0331

Water depth = 5.6 ft

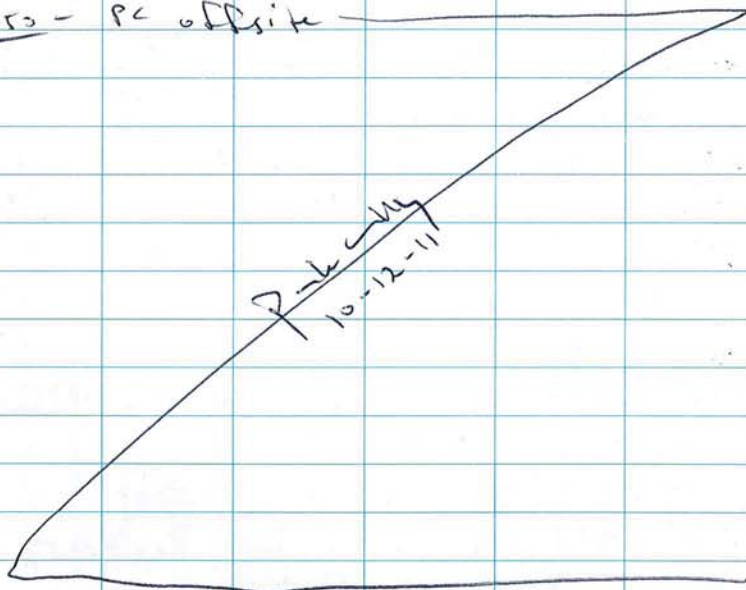
0925 - 2nd core successful at 11B-0331.  
Recovery = 4.8 / 4.5 ft.

0936 - Begin 3rd core at 11B-0331

1000 - 3rd core successful. Recovery

PC 114 10-12-11



Location Passaic RiverDate 10-12-11Project / Client RM 10.9AE Com oversight4.2/4.5 D PC  
10-1210:06 - 1<sup>st</sup> grab sample at 11B-0331is successful PC  
10-1210:30 - PC returns to facility area on  
jon boat to observe core processing10:50 - PC enters facility area and begins  
observation of processing of core 11B-0331.13:00 - Processing crew takes lunch.14:00 - Begin observation of 11B-0  
10-12processing of 11B-0332. Boat crew has  
successfully collected 2 cores and a  
grab sample at 11B-0332 PC  
10-1214:50 - PC offsiteLocation Passaic RiverDate 10-13-11Project / Client RM 10.9AE Com Oversight06:05 - P. Connelly onsite at facility  
Personnel - P. Connelly (com) M. Hansen,  
S. Howe, J. Holzer 10-13, K. VanNess, R. Forester (AE com), M. Ridd (gravity), J. Delorenzo (dist)PPE - modified level D + life vestWeather - light rain, 60's °FTask - oversight on AE Com collecting  
and processing sediment cores + grab  
sample at locations 11B-0330 and  
11B-0315 PC  
10-1307:05 - Show off on boat08:05 - Begin 1<sup>st</sup> core at 11B-0330Water depth = 6.5 ft PC  
10-1308:25 - 1<sup>st</sup> core at 11B-0330 unsuccessful  
due to poor recovery08:40 - Begin 2<sup>nd</sup> core at 11B-0330Water depth = 7.0 ft PC  
10-1309:15 - 2<sup>nd</sup> core successful at 11B-0330

Recovery = 14.7/14.0 ft. Recovery at 7.8 ft

09:35 - Begin 3<sup>rd</sup> core at 11B-0330 PC  
10-1309:55 - 3<sup>rd</sup> core successful. Recovery = 3.7  
4.510:07 - Begin 4<sup>th</sup> core at 11B-0330

Water depth = 7.4 ft

10:25 - 4<sup>th</sup> core successful. Recovery 4.7/4.5 ft

P. Connelly 10-13-11



## AE Com oversight

1042 - Grab #1 successful at 11B-0330.

1045 - PC returns to Facility area on  
 jon boat PC  
10-13

1130 - PC enters core processing area  
 to observe processing of 11B-0330

~~Note~~ 10-13

Backnote - After PC left boat crew,  
 the returned to location 11B-0351  
 where they were initially unable to  
 collect a grab sample due to a rocky  
 substrate on 10/10/11. They made 3 additional  
 attempts to collect a grab sample within  
 20 ft of the target sample location  
 but were not successful due to rocky  
 river bottom. This brings the total  
 number of attempts to 9.

1300 - Core processing crew takes lunch

1400 - Core processing crew resumes work

1500 - PC offsite

7-11-11  
 10-13-11

## AE Com oversight

0600 - P. Connolly onsite at Facility  
 Personnel - P. Connolly (com) Steve Howe,  
 J. Hultzer, H. Kokkonidis (AE com), M. D'Amato  
 (unity), J. Delorenzo, PC  
10-17

PPE - modified level D + 10 feet to  
 weather - light rain, 60's °F

Task - oversight on AE Com collecting and  
 processing sediment cores for lab analysis  
 at 11B-0316, 11B-0342. Also, collect  
 split samples at 11B-0342 PC 10-17  
 and 11B-0316. intervals B and C.

0707 - Leave dock on boat

0820 - Begin coring 1<sup>st</sup> core at 11B-0342  
 water depth = 9.0 ft.

0850 - 1<sup>st</sup> core unsuccessful at 11B-0342

0910 - Begin 2<sup>nd</sup> core at 11B-0342

0950 - 2<sup>nd</sup> core unsuccessful. Insufficient  
 recovery. PC  
10-17

1008 - Begin 3<sup>rd</sup> core at 11B-0342. Water  
 depth = 12.3 ft. PC  
10-17

1030 - 3<sup>rd</sup> core successful. Note that AE  
 Com is calling this the 5<sup>th</sup> core at  
 11B-0342 due to the 1<sup>st</sup> (2) cores having  
 been collected during high resolution



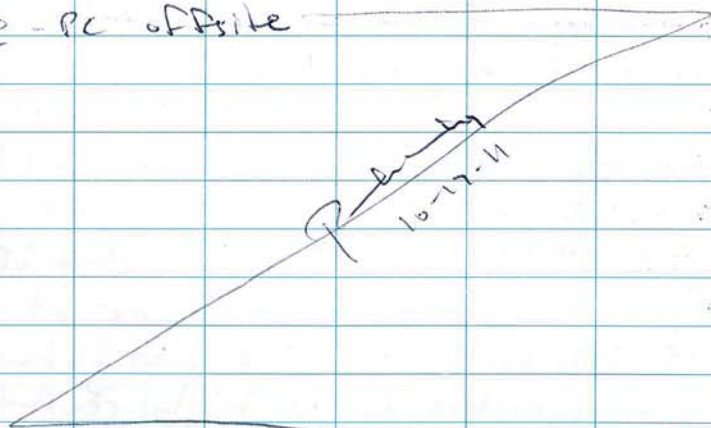
Location Passaic River Date 8-10-17-11  
 Project / Client RM 10.9  
AE com Oversight

core sampling. Recovery = 8.8/10.1 ft  
 1045 - PC returns to facility area to take lunch and oversee core processing.  
 1120 - PC enters facility area. The facility crew is processing 11B-0342.

1300 - K. Vannerson informs PC that the boat crew has collected 1 long core and 2 short cores for processing. Due to dropping tide, they are now relocating to 11B-0316 to collect cores/grab + sedimentology core. They will return to 11B-0342 afterwards to collect a sedimentology core and a grab sample. PC 10-17

1430 - Boat crew has successfully collected only one core so far at 11B-0316 PC 10-17

1500 - PC offsite



Location Passaic River Date 10-18-11  
 Project / Client RM 10.9  
AE com oversight

0600 - P. Connelly onsite at facility  
 Personnel - P. Connelly (com) J. Holzer, S. Howe, H. Kokenelis (AE com) M. Engels, M. Traggisese (OSI) PC 10-18

PPE - modified level D + life vests

Weather - partly cloudy, 50's/60's °F

Task - ~~collect~~ oversight on AE com collecting sediment cores/grab samples and processing them for lab analysis. Target locations are 11B-0352 and 11B-0306. Split sampler will be collected at 11B-0352 intervals R and C. PC 10-18

0700 - shove off from dock on board the can. du. PC 10-18

0810 - Begin 1<sup>st</sup> core at 11B-0352

Water depth = 11.6 ft.

0827 - 1<sup>st</sup> core at 11B-0352 unsuccessful.

Recovery = 5.2/8 ft PC 10-18

0842 - Begin 2<sup>nd</sup> core at 11B-0352;

Water depth = 12.1 ft PC 10-18

0855 - 2<sup>nd</sup> core unsuccessful at 11B-0352.

Recovery = 6/8. PC 10-18

0907 - Begin 3<sup>rd</sup> core at 11B-0352.

Task only 10-18-11



Location Passaic RiverDate 10-18-11

Project / Client

RM 10.9

AE com oversight

0920 - 3<sup>rd</sup> attempt unsuccessful at 11B-0352.

Recovery = 4.95 / 7.4 ft

0950 - 3<sup>rd</sup> attempt recovery = 79.45%.

The requirement is 80%. AE com will keep this core and use it only if the next few coring attempts yield insufficient recovery. 5.2 / 7.4 ft

1005 - Begin 4<sup>th</sup> <sup>core</sup> attempt at 11B-03521020 - 4<sup>th</sup> attempt unsuccessful. Recovery = 0/1027 - Begin 5<sup>th</sup> <sup>core</sup> attempt at 11B-03521040 - 5<sup>th</sup> attempt unsuccessful. Recovery < 80%.1050 - PC returns to Facility area on jon boat. The boat crew will relocate to location 11B-0306 and attempt to

collect cores and a grab sample there.

~~1120 - PC returns to core processing area.~~

1230 - Boat crew has successfully retrieved a core from 11B-0306 to begin processing.

1500 - At 11B-0306, boat crew successfully collected cores and a grab. PC Affix.

P. Connelly  
 10-18-11

Location

Passaic River

Date

10-18-11

Project / Client

RM 10.9

AE com Oversight

0600 - P. Connelly onsite at Facility

Personnel - P. Connelly (com) S. Howe,

J. Holzer, H. Kobilis (AE com) M. Duffield

(Gravity), J. DeBrenzo, M. Triggianese (OSI)

PPE - modified level D + life vests

Weather - rain, wind, 50's °F

Task - ~~collect~~ oversight on AE com

collecting and processing sediment cores at stations 11B-0336 and 11B-0334.

0650 - Shore off from dock

0835 - Begin 1<sup>st</sup> core at 11B-03360843 - 1<sup>st</sup> core unsuccessful. Recovery = 4.0 / 8.5 ft0900 - Begin 2<sup>nd</sup> core at 11B-0336.0906 - 2<sup>nd</sup> core unsuccessful. Recovery = 5.0 / 8.0 ft0925 - Begin 3<sup>rd</sup> core at 11B-0336.0931 - 3<sup>rd</sup> core unsuccessful. Recovery = 3.7 / 6.0 ft0948 - Begin 4<sup>th</sup> core at 11B-03360953 - 4<sup>th</sup> core unsuccessful. Recovery = 2.7 / 6.3 ft1015 - Begin 5<sup>th</sup> core at 11B-0336.1022 - 5<sup>th</sup> core successful. Recovery

P. Connelly 10-18-11



## AE com oversight

= 7.5 / 9.0 ft. ————— PC 10-19

1058 - Begin 6th core at 11B-0336.

1102 - 6th core successful. Recovery = 11.2 / 12.0 ft. This core will not be processed for analytical samples but will be stored as a sedimentological core. ————— PC 10-19

1105 - PC returns to facility on jon boat to observe core processing and take lunch. ————— PC 10-19

1400 - Boat crew has successfully collected 1 sed core, 1 long core for processing, and 1 short core for processing from 11B-0336 in 9 total attempts. They've also successfully collected a grab sample. ————— PC 10-19

1430 - Boat crew has moved to location 11B-0334. ————— PC 10-19

1500 - M. Kowalczyk onsite to pick up this week's split sampler and send them to lab.

1535 - M. Kowalczyk offsite - K. VanNesson informs PC that Boat crew has collected 2 cores + grab sample at 11B-0334.

1600 - PC offsite

PC - by 10-19-11

## AE com oversight

0600 - P. Connelly onsite at CRG Facility  
Personnel - P. Connelly (com), S. Howe, J. Holzer, H. Kokimetic (AECOM), M. Duffield (Gravity), J. DeLorenzo, M. Traggianese (OSI)

PPE - modified level D + lifevests  
Weather - heavy rain last night, currently not raining but humid, 60's °F

Task - over-sight on AECOM collecting and processing sediment cores for lab analysis. Today's target locations: core 11B-0303 and 11B-0348.

0650 - Depart from dock

0749 - Begin coring 1st core at 11B-0303  
 Water depth = 12.5 ft.

0809 - 1st core successful at 11B-0303.  
 Recovery = 7.2 / 7.4 ft.

0840 - Begin 2nd core at 11B-0303.  
 Water depth = 12.5 ft.

0905 - 2nd core successful at 11B-0303.  
 Recovery = 6.2 / 6.4 ft.

0928 - Begin 3rd core at 11B-0303.  
 Water depth = 12.4 ft.

0945 - 3rd core unsuccessful. Recovery = < 80 %

PC - by 10-20-11



AE Com Oversight

0955 - Begin 4th core at 11B-0303.

1010 - 4th core successful. Recovery  $\approx 80\%$

1018 - Begin 1st attempt at grab sample.  
Water Depth = 12.9 ft. at 11B-0303.

1024 - 1st grab successful at 11B-0303.

1030 - The 4th core collected at 11B-0303  
has to be at least 3.5 ft long but it is  
only 3.0 ft. It will be discarded and  
another core will be collected.

1040 - Begin 5th core at 11B-0303.

1054 - 5th core unsuccessful. Recovery =  
 $1.6 / 4.5$  ft PC  
10-20-11

1105 - Begin 6th core at 11B-0303.

1114 - 6th core successful. Recovery =  $4.4 / 4.5$  ft

1120 - PC leaves on job boat to return  
to facility area and take lunch.

1200 - PC enters facility area. Facility  
crew is processing 11B-0303 cores.

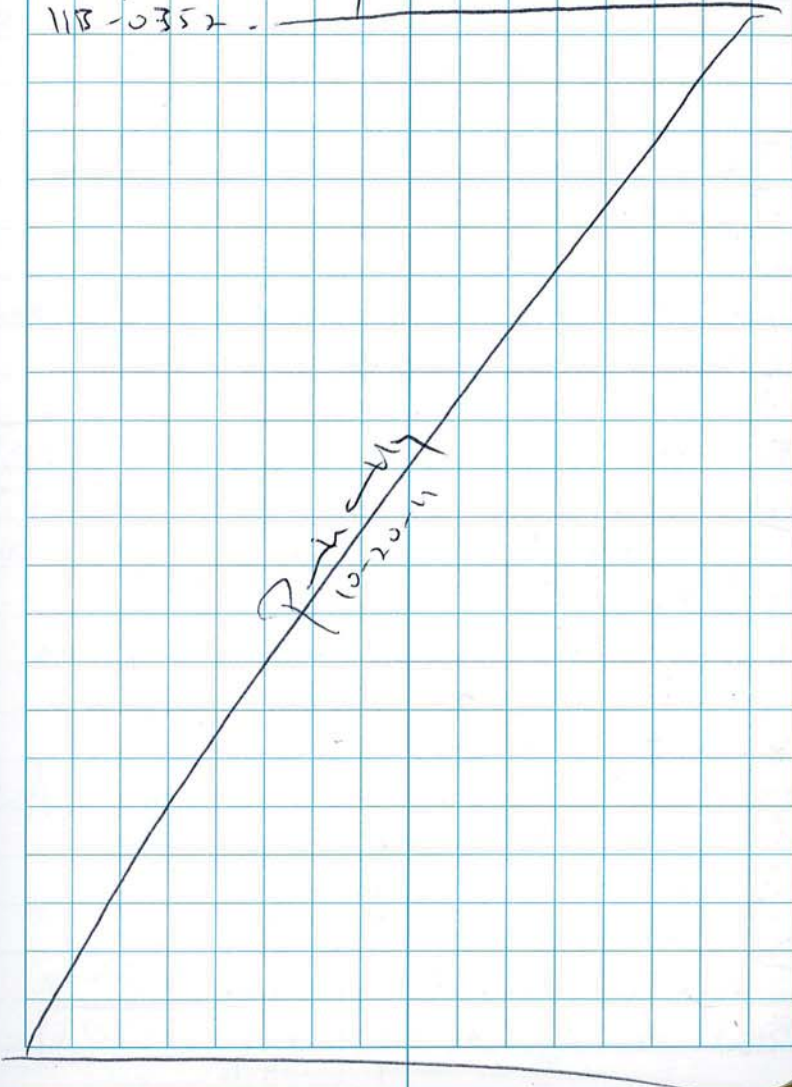
1300 - K. VanNaerssen informs PC that boat  
crew has relocated to 11B-0352 rather  
than the planned 0348 due to concerns  
about the proximity to 0348 to some  
underground electrical conduits.

1500 - PC offsite.

7 hours 10-20-11

AE Com Oversight

1800 - PC speaks to K. VanNaerssen  
on phone. They collected 4 cores from  
11B-0352.





Location Passaic River Date 10-24-11  
 Project / Client RM 10.9  
AE Com Oversight

0600 - P. Connelly onsite at Facility  
 Personnel - P. Connelly (COM), S. Howe, H. Kukulinski  
 J. Holzer (AECOM), J. Delacruz, M. Trenggese (OSI)

PPE - modified level D + life vests

Weather - partly cloudy, 50<sup>th</sup> F

Task - oversight on AECOM collecting and processing sediment cores. The target locations today are 11B-0301 and 11B-0338. Split samples will be collected at 11B-0338 intervals B and C.

0700 - Depart dock on boat

0805 - Begin coring 1<sup>st</sup> core at 11B-0338.

0820 - Successfully collect 1<sup>st</sup> core. Recovery = 9.1 / 9.0 ft rd 10-24

0830 - Begin 2<sup>nd</sup> core at 11B-0338.

0841 - Successfully collect 2<sup>nd</sup> core at 11B-0338. Recovery = 9.8 / 9.0 ft

0855 - Begin 3<sup>rd</sup> core at 11B-0338.

0911 - 3<sup>rd</sup> core successful. Recovery = 4.6 / 4.3 ft

0944 - 1<sup>st</sup> grab sample failed

0953 - 2<sup>nd</sup> grab successful.

1025 - PC returns to Facility on jet boat to observe processing of 11B-0338.

Boat crew will mobilize to 11B-0301

PC - by 10-24-11

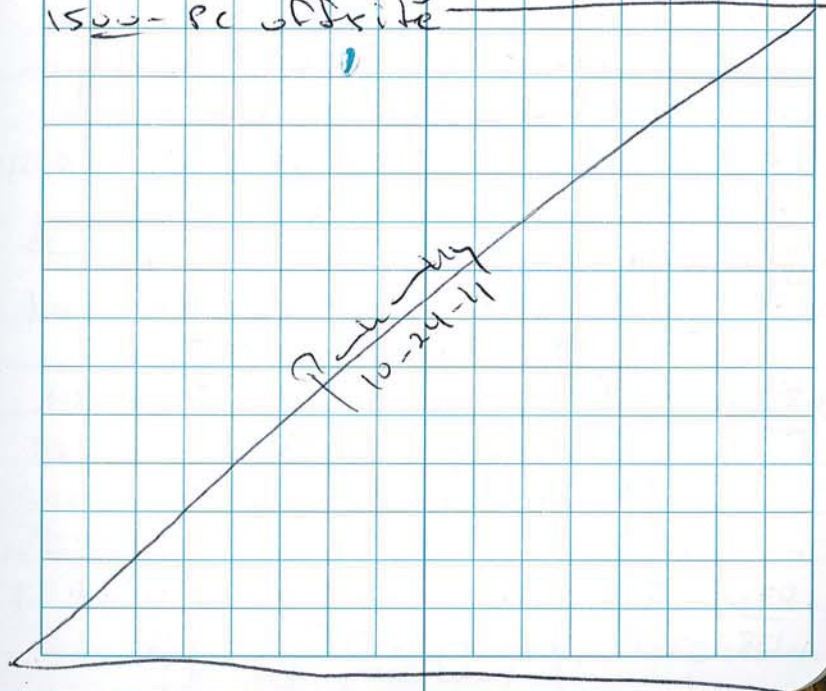
Location Passaic River Date 10-24-11  
 Project / Client RM 10.9  
AE Com Oversight

1045 - PC enters tent area to observe processing of 11B-0301. PC 10-24

1400 - K. VanNaerssen informs PC that boat crew has collected 2 successful low resolution cores at 11B-0301 and a grab sample. 10-24

1440 - K. VanNaerssen (AECOM) informs PC that boat crew has collected 1 sediment core at 11B-0315. Boat crew is returning to dock now.

1500 - PC offsite





AE Com Oversight

0600 - P.C. onsite at field facility  
 Personnel - P. Connelly (COM), J. Holzer,  
 S. Howe, H. Kokimelis (AECOM) J. Delorezo,  
 M. Traggianese (OSI)

PPE - modified level D + life vests

Weather - clear sky, 50's-F

Task - oversight on AECOM collecting and processing sediment cores. Target locations are 11B-0310, 11B-03, and a plan to return to 11B-0301 (collected yesterday) to collect another core. The top 1-foot of material never fully "settled" yesterday in order to sample the A interval.

Split samples will be collected at 11B-0310 intervals B, C, and D

0700 - Depart dock on boat — PC

0755 - 1st core successfully collected at 11B-0310 Recovery = 14.3/14.0

0839 - 2nd core successful at 11B-0310. Recovery = 12.6/14 D+. This core will be stored for detailed sedimentological analysis.

0929 - 3rd core successfully collected at 11B-0310. Recovery = 4.7/4.5 D+  
 P.C. my 10-25-11

AE Com Oversight

0956 - Grab #1 unsuccessful at 11B-0310.

10:01 - Grab #2 successful at 11B-0310.

10:25 - PC returns to facility area on jon boat to take lunch and observe processing of 11B-0310.

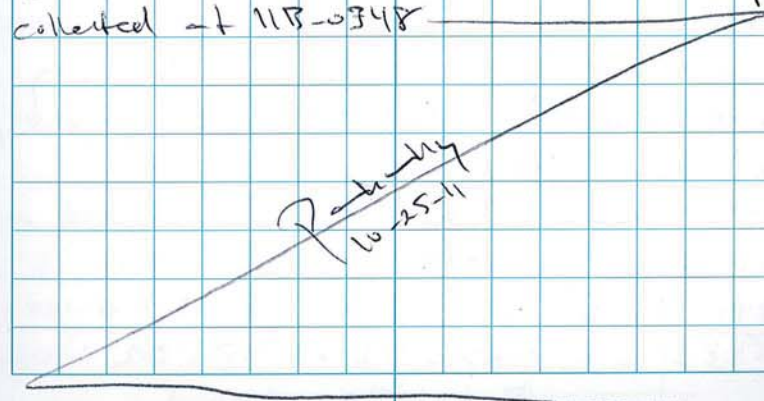
11:00 - PC enters facility to observe processing of 11B-0310 cores and grab.

1325 - Finished processing 11B-0310.

Cone processing crew takes lunch. 1400 - K. VanNesson informs PC that the boat crew has successfully collected a new core from 11B-0301 to replace yesterday's core that never fully "settled out".

Boat crew is moving on to location 11B-0348.

1515 - PC onsite. 2 cores were successfully collected at 11B-0348





Location Passaic River Date 10-26-11Project / Client RM 10.9  
AECom oversight

0600 - P. Connolly onsite at facility  
Personnel - P. Connolly (COM), S. Howe, J. Holzer,  
 H. Kokinelis (AECom), J. DeLorenzo  
 M. Traggianese (OSI) PC 10-26

PPE - modified level D + life vest

weather - cloudy, 50's °F, chance of rain

Task - oversight on AECom collecting and  
 processing sediment cores at 11B-0302,  
 11B-0323, and potentially a grab and sediment  
 core sample at location 10-26  
P.

0650 - Report dock on boat

0745 - Begin coring 1st core at 11B-0302

0750 - Core has been advanced fully but  
 captain notices that the radiator in the  
 engine that powers the core machine has  
 split and is leaking radiator fluid.

Crew quickly gets the spill kit and places  
 sorbent pads to absorb the fluid. A very  
 small amount has made it to the water,  
 perhaps a few cups.

0800 - Core #1 at 11B-0302 is collected and  
 will be processed. Recovery = 14.6/14.0 Lt

0844 - Grab sample #1 at 11B-0302 unsuccessful.

0848 - Grab sample #2 at 11B-0302 successful  
 Done by 10-26-11

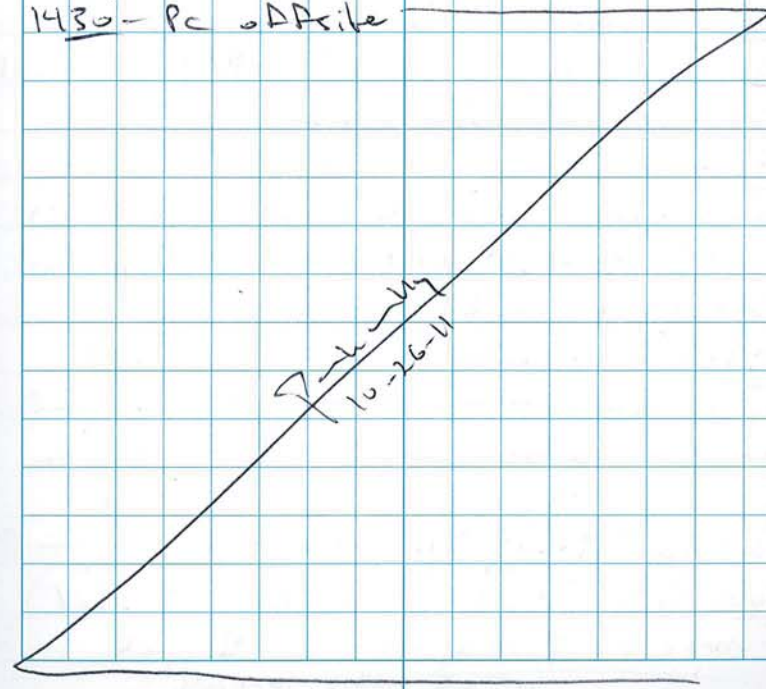
Location Passaic River Date 10-26-11Project / Client RM 10.9  
AECom oversight

0900 - Boat captain is inspecting the  
 radiator to determine if and how  
 it can be repaired. None

1100 - OSI will need to return to dock to  
 repair radiator. PC will return to dock  
 with the boat crew and go to CPG  
 facility to observe core processing.

1130 - Back at CPG facility to  
 observe processing of core + grab  
 sample from 11B-0302.

1430 - PC @ APrile





Location Passaic River Date 10-27-11Project / Client RM 10.9AE COM oversight

0600 - P. Connelly onsite at facility  
 Personnel - P. Connelly (COM), S. Howe, <sup>PC</sup> J. Holzer, H. Kokinelis (AECOM) S. Delorenzo,  
 M. Traggianese (OSI)

PPE - modified level D + 1/2 forest

Weather - rain, 50-55°F

Task - Oversight on AECOM collecting and processing sediment cores from locations 11B-0323 and 11B-0333. No split samples are planned for today.

0650 - Depart dock on boat

0800 - Core #1 at 11B-0323 successful.  
 Recovery = 11.3/13.0 ft

0852 - Core #2 at 11B-0323 Failed.  
 Insufficient length (recovered at 2 ft)

0903 - Core #3 at 11B-0323 successful  
 Recovery = 3.8/4.0 ft

0931 - Grab sample #1 at 11B-0323 successful. <sup>PC</sup> 10-27

1000 - PC returns to Facility area on job boat. Boat crew relocates to station 11B-0333. <sup>PC</sup> 10-27

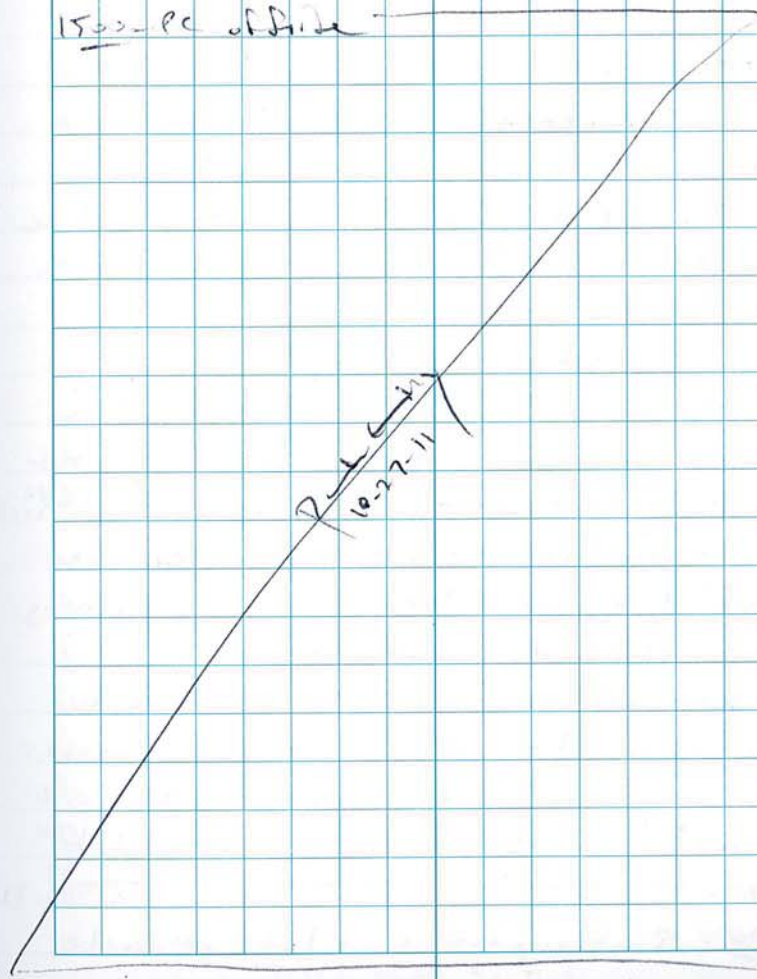
1300 - Boat crew has successfully collected 2 cores in 3 attempts and 1 grab in P-1 Chs 10-27-11

Location Passaic River Date 10-27-11Project / Client RM 10.9AE COM oversight

1 attempt at 11B-0333 -

1315 - Boat crew will relocate to station 11B-0322 to attempt to collect a sedimentological core.

1500 - PC off site





Location Passaic River Date 10-31-11Project / Client RM 10.9AECOM oversight

0600 - P. Connelly onsite at CFC Facility  
 Personnel - P. Connelly (COM), J. Holzer,  
 S. Howe, H. Kuleinich (AECOM), M. Dethold  
 (Gravity), J. Delorenzo, M. Traggianese (OSI)

PPE - modified level D + life vests

weather - 30's°F, clear, snow last night

Task - Oversight on AECOM collecting and processing sediment core at locations

11B-0309 and 11B-0349. Split samples will be collected at 11B-0309 intervals A, B, and D.

0645 - Report CFC dock on boat

0745 - Crew begins setting up mast

0800 - PC notices an oily sheen coming from the rear of the boat and points it out to S. Howe of AECOM. PC 10-31

0805 - Boat captain determines that the engine that powers the winches is leaking hydraulic fluid. They quickly use a spill kit with oil absorbent pads to contain the spill. Captain estimates about a quart of fluid leaked onto deck and an ounce or so made it to the ~~H<sub>2</sub>O~~ river. PC 10-31

0830 - Boat captain will have to dock

Location Passaic River Date 10-31-11Project / Client RM 10.9AECOM oversight

Boat at a nearby dock. COM, AECOM, and Gravity personnel will return to the CFC facility to ~~wait~~ <sup>wait</sup> on an on job boat to wait ~~for~~ <sup>for</sup> 10-31.

0855 - Return to CFC facility on job boat

1115 - We receive word that the hydraulic pump issue has been fixed and we will be shuttled back to the coring boat on the job boat. PC 10-31

1130 - Arrive back on coring boat.

1150 - Begin 1st core at 11B-0309.

1158 - Core has been advanced but S. Howe receives instruction from K. Van Naerssen (AECOM) to stop work. AECOM H&S + upper management is having a meeting to determine if they should continue work as usual or if changes need to be made due to the spill.

1234 - AECOM gives authorization to resume work. PC 10-31

1250 - 1st core at 11B-0309 successful. Recovery = 14.4 / 13.0 ft. J. Rolfe of DMI is nearby on job boat and observes some more sheen on the river at the

Dock at 10-31-11



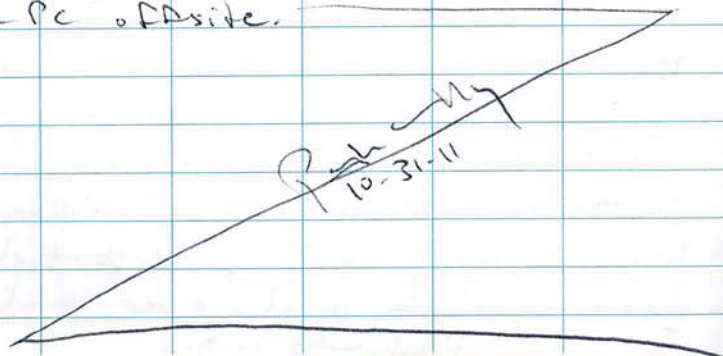
Location Passaic River Date 10-31-11Project / Client RM 10.9AECOM Oversight

rear of the boat. Boat crew determines that it is from hydraulic oil residue on the deck being rinsed overboard with the water they are hosing off the deck with. ~~Boat~~ OSI personnel move the motor that was the source of the oil and use alconox and a deck brush and sorbent pads to clean up the residual oil. PC 10-31

1325 - ~~OSI~~ <sup>PC 10-31</sup> The engine that powers the vibrocore won't start. OSI begins trouble shooting. PC 10-31

1500 - OSI has not managed to fix the vibrocore motor. The boat crew was able to collect a grab sample from location 11B-0309. OSI will have to return to their shop tonight to fix or replace motor.

1510 - PC o/s site.

Location Passaic River Date 11-1-11Project / Client RM 10.9AECOM Oversight

0640 - P. Connelly onsite at field facility. Our start time is delayed today by about 1 hour due to the problems with the vibrocore motor ~~last~~ <sup>PC 11-1</sup> yesterday. PC 11-1

Personnel - P. Connelly (owner), S. Howe, J. Holzer, H. Kokimelis (AECOM), M. Duffield (Gravity), J. DeLorenzo, M. Traggianese (OSI)

PPE - modified level D + lifelines  
weather - partly cloudy, 50's °F

Task - oversight on AECOM collecting sediment cores and grab samples for analysis at locations 11B-0335 and 11B-0312. Split samples will be collected on the first location at intervals A, D, and the bottom interval.

0800 - ~~PC~~ <sup>PC 11-1</sup> K. Van Neerssen informs PC that work is on standby while AECOM has meetings to discuss yesterday's H+S, oil release, and motor issues.

1320 - AECOM informs CDM that no cores will be collected today. AECOM and OSI will perform a full H+S/mechanical review

P. Connelly 11-1-11



Location Passaic River

Date

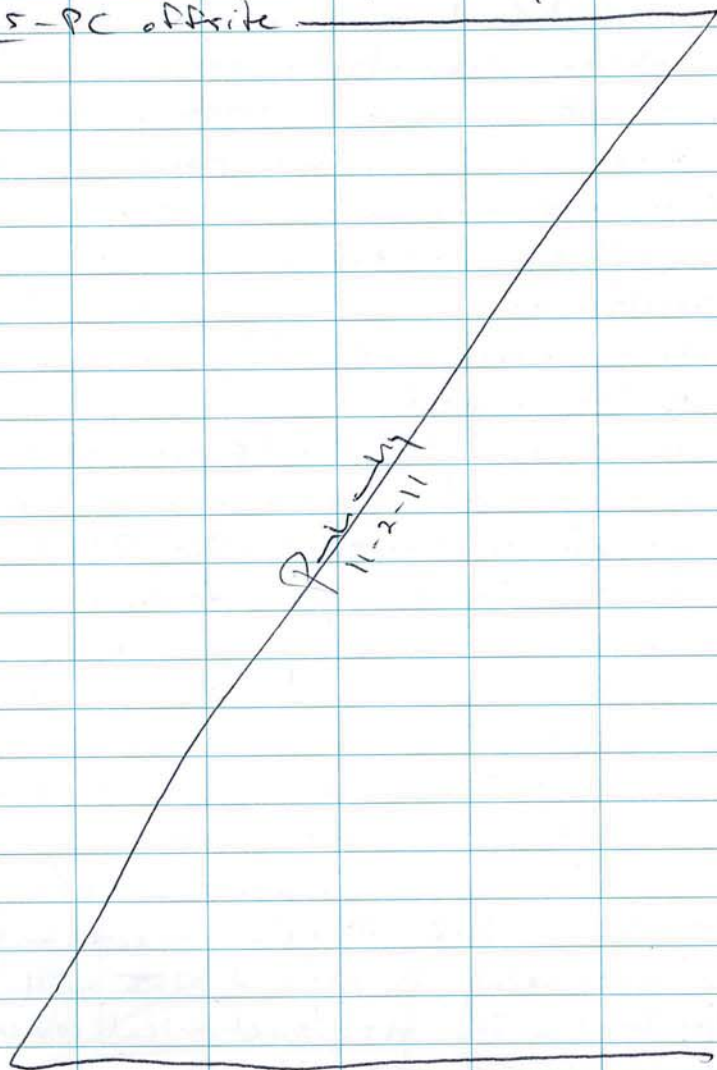
11-2-11

Project / Client

RM 10.9AECOM oversight

of the vibrocore vessel this afternoon  
due to the incidents yesterday.

1345 - PC offsite

Location Passaic River

Date

11-2-11

Project / Client

RM 10.9AECOM oversight

0600 - P. Connelly onsite at CP6 Facility  
Personnel - P. Connelly (com), S. Howe,  
J. Holzer, H. Kokinelis, K. VanNaarsen (AECOM),  
J. DeLuca, I. Candee (OSI)

PPE - Modified level D + lifevests

Weather - clear, 50's expected high

Task - oversight on AECOM collecting and  
processing sediment core samples.

Target locations today are 11B-0349,  
11B-0346, and 11B-0331.

0710 - Depart dock on boat

0813 - collect 1st core at 11B-0349

Recovery = 10.8 / 9.3 ft. Note that  
this core will actually be the 3rd core  
collected at this location w/ 2 cores  
were previously collected here for high  
resolution analysis.

0906 - collect 2nd core at 11B-0349,  
Recovery = 7.5 / 7.4, this core will  
be used for sedimentological logging.

1005 - 3rd core unsuccessful. Recovery  
= < 80% (2.5 / 4.2 ft)

1037 - collect 4th core at 11B-0349,  
Recovery = 4.2 / 4.4 ft

P. Connelly 11-2-11



11:11 - collect first grab sample at 11B-0349. Grab is successful - com collector split vna samples from this grab.

11:30 - PC returns to facility on Jon Boat to eat lunch and observe core processing.

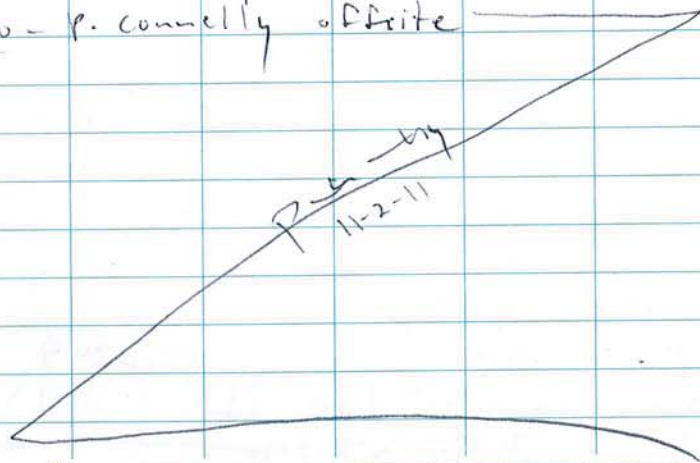
13:00 - K. VanWierssen informs PC that the boat crew has successfully collected the first core at 11B-0346.

14:20 - Boat crew has collected 2 cores and a grab sample at 11B-0346. They are now moving to 11B-0331 to attempt to collect a core for detailed sedimentology logging.

14:35 - M. Konieczny (com) on site to pick up split samples to pack and ship to lab.

15:15 - M. Konieczny offsite with samples.

15:40 - P. Connelly offsite



07:00 - P. Connelly onsite at CPG Facility  
Personnel - P. Connelly (com), S. Howell, J. Holzer, K. Kokinielis (AEcom), M. Duffield (Gravity), J. DiLorenzo, F. Candee (OSI)

PPE - Modified level D + lifelines

Weather - clear skies, 50's of

Task - oversight on AEcom collecting and processing sediment cores at locations 11B-0354 and 11B-0312. Split samples will be collected from 11B-0312 at intervals A, B, C, and D. <sup>PC 11-3</sup>

08:25 - Depart from dock on boat.

09:35 - the 1st core at 11B-0354 hit refusal at 3.3 ft. When the core was pulled out, it had native material (red silt) near the bottom. Recovery = 3.6 / 3.3 ft.

10:20 - 2nd core at 11B-0354 successful.

Refusal at 4.0 ft. Recovery = 3.6 / 4.0 ft. Native material at about 1.6 ft.

10:35 - Grab sample successful on 2nd attempt. First attempt did not yield sufficient recovery.

10:50 - PC returns to facility on Jon boat to take lunch and observe

P. Connelly 11-3-11



Overview of AECOM

core processing as well as the detailed sediment core analysis.

1230 - PC speaks to Ad Van Der Spek who is performing the detailed lithologic analysis of select sediment cores. He states that he is checking the cores for general lithologic data such as color, grain size, contacts, and the presence of other (organic) materials in the cores. He is also trying to determine whether the deposits are recent or older (i.e. are fresh, contaminated sediments still being deposited). This would affect the feasibility of using a cap to cover the contaminated sediments. He says that ~~it depends on~~ <sup>cores from</sup> he is seeing that some parts of river segment are experiencing fresh sedimentation, while others aren't.

1445 - AECOM personnel dropped and broke two of the VOC vials for split samples from the grab sample at 11B-0312. CDM has no extra VOC vials onsite and so will use a jet provided by AECOM to re-collect the sample from the 0-0.5 ft interval <sup>at</sup> core at 11B-0312. AECOM <sub>PC 11-3-11</sub>

AECOM oversight

sample personnel will collect the actual sample. <sub>PC 11-3-11</sub>

1500 - PC continues observation of core processing at ~~11B~~ <sup>11B-0312</sup> from <sub>PC 11-3-11</sub>

1700 - PC offsite with the <sup>split</sup> samples collected today in a cooler with ice. The samples will be taken by PC to the ~~Edison~~ <sup>Edison, NJ</sup> CDM's Edison, NJ warehouse. They will be stored in a refrigerator <sup>at</sup> in the warehouse overnight and shipped or delivered to the appropriate labs in the morning. <sub>PC 11-3-11</sub>

1800 - PC has placed the samples inside the fridge with a custody seal on the door. PC offsite from warehouse

